# 6558-03N/03S/43N/43S

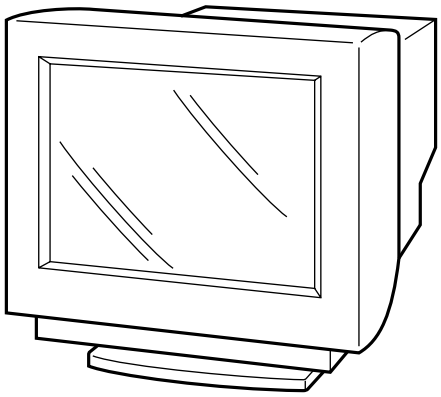
# SERVICE MANUAL

*6558-03N/43N*

*US Model*
*Canadian Model*
*AEP Model*
*Japan Model*

*6558-03S/43S*

*S. Hemisphere Model*



## N3 CHASSIS

### SPECIFICATIONS

| | |
|---|---|
| Picture tube | 0.25 – 0.27 mm aperture grille pitch<br>21 inches measured diagonally<br>90-degree deflection |
| Viewable image size | Approx. 403.8 × 302.2 mm (w/h)<br>(16 × 12 inches)<br>19.8″ viewing image |
| Resolution | Horizontal: Max. 1600 dots<br>Vertical: Max. 1200 lines |
| Standard image area | Approx. 388 × 291 mm (w/h)<br>(15 3/8 × 11 1/2 inches)<br>or<br>Approx. 364 × 291 mm (w/h)<br>(14 3/8 × 11 1/2 inches) |
| Deflection frequency | Horizontal: 30 to 107 kHz<br>Vertical: 50 to 160 Hz<br>256 < Total Line < 2048 |
| AC input voltage/current | 100 to 240 V, 50 – 60 Hz, 2.0 – 1.0 A |
| Power consumption | Max. 160 W |
| Dimensions | 498 × 513 × 500 mm (w/h/d)<br>(19 5/8 × 20 1/4 × 19 3/4 inches) |
| Mass | Approx. 31 kg (68 lb 5 oz) |

Design and specifications are subject to change without notice.

| MODEL | SPEC. | |
|---|---|---|
| | BODY COLOR | DEST. |
| 6558-03N | WHITE TYPE | U/C, AEP, J |
| 6558-03S | | SH |
| 6558-43N | BLACK TYPE | U/C, AEP, J |
| 6558-43S | | SH |

## COLOR MONITOR

IBM®

# SAFETY CHECK-OUT
# (US Model only)

After correcting the original service problem, perform the following safety checks before releasing the set to the customer:

1. Check the area of your repair for unsoldered or poorly-soldered connections. Check the entire board surface for solder splashes and bridges.
2. Check the interboard wiring to ensure that no wires are "pinched" or contact high-wattage resistors.
3. Check that all control knobs, shields, covers, ground straps, and mounting hardware have been replaced. Be absolutely certain that you have replaced all the insulators.
4. Look for unauthorized replacement parts, particularly transistors, that were installed during a previous repair. Point them out to the customer and recommend their replacement.
5. Look for parts which, though functioning, show obvious signs of deterioration. Point them out to the customer and recommend their replacement.
6. Check the line cords for cracks and abrasion. Recommend the replacement of any such line cord to the customer.
7. Check the B+ and HV to see if they are specified values. Make sure your instruments are accurate; be suspicious of your HV meter if sets always have low HV.
8. Check the antenna terminals, metal trim, "metallized" knobs, screws, and all other exposed metal parts for AC Leakage. Check leakage as described below.

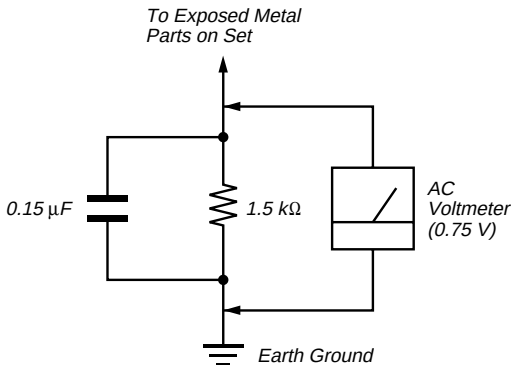



*Fig. A. Using an AC voltmeter to check AC leakage.*

## LEAKAGE TEST

The AC leakage from any exposed metal part to earth ground and from all exposed metal parts to any exposed metal part having a return to chassis, must not exceed 0.5 mA (500 microampers).

Leakage current can be measured by any one of three methods.

1. A commercial leakage tester, such as the Simpson 229 or RCA WT-540A. Follow the manufacturers' instructions to use these instruments.
2. A battery-operated AC milliammeter. The Data Precision 245 digital multimeter is suitable for this job.
3. Measuring the voltage drop across a resistor by means of a VOM or battery-operated AC voltmeter. The "limit" indication is 0.75 V, so analog meters must have an accurate low-voltage scale. The Simpson 250 and Sanwa SH-63Trd are examples of a passive VOMs that are suitable. Nearly all battery operated digital multimeters that have a 2 V AC range are suitable. (See Fig. A)

**WARNING!!**

**NEVER TURN ON THE POWER IN A CONDITION IN WHICH THE DEGAUSS COIL HAS BEEN REMOVED.**

**SAFETY-RELATED COMPONENT WARNING!!**

**COMPONENTS IDENTIFIED BY SHADING AND MARK ⚠ ON THE SCHEMATIC DIAGRAMS, EXPLODED VIEWS AND IN THE PARTS LIST ARE CRITICAL FOR SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY. CIRCUIT ADJUSTMENTS THAT ARE CRITICAL FOR SAFE OPERATION ARE IDENTIFIED IN THIS MANUAL. FOLLOW THESE PROCEDURES WHENEVER CRITICAL COMPONENTS ARE REPLACED OR IMPROPER OPERATION IS SUSPECTED.**

**AVERTISSEMENT!!**

**NE JAMAIS METTRE SOUS TENSION QUAND LA BOBINE DE DEMAGNETISATION EST ENLEVÉE.**

**ATTENTION AUX COMPOSANTS RELATIFS À LA SÉCURITÉ!!**

**LES COMPOSANTS IDENTIFIÉS PAR UNE TRAME ET UNE MARQUE ⚠ SONT CRITIQUES POUR LA SÉCURITÉ. NE LES REMPLACER QUE PAR UNE PIÈCE PORTANT LE NUMÉRO SPECIFIÉ. LES RÉGLAGES DE CIRCUIT DONT L'IMPORTANCE EST CRITIQUE POUR LA SÉCURITÉ DU FONCTIONNEMENT SONT IDENTIFIÉS DANS LE PRÉSENT MANUEL. SUIVRE CES PROCÉDURES LORS DE CHAQUE REMPLACEMENT DE COMPOSANTS CRITIQUES, OU LORSQU'UN MAUVAIS FONCTIONNE-MENT EST SUSPECTÉ.**

## POWER SAVING FUNCTION

This monitor meets the power-saving guidelines set by VESA and Energy Star, as well as the more stringent NUTEK .
If the monitor is connected to a computer or video graphics board that is VESA DPMS (Display Power Management Signaling) compliant, the monitor will automatically reduce power consumption in three stages as shown below.
You can set the delay time before the monitor enters the power saving mode using the OSD. Set the time according to "Setting the power saving delay time" on page 13.

**Note**

If no video signal is input to the monitor, the "NO INPUT SIGNAL" message (page 16) appears. After the delay time has passed, the power saving function automatically puts the monitor into the active-off mode and the ⏻ indicator lights up orange. Once the horizontal and vertical sync signals are detected, the monitor automatically resumes its normal operation mode.

| | Power consumption mode | Screen | Horizontal sync signal | Vertical sync signal | Power consumption | Recovery time | ⏻ indicator |
|---|---|---|---|---|---|---|---|
| 1 | Normal operation | active | present | present | ≤ 160 W | — | Green |
| 2 | Standby (1st mode) | blank | absent | present | ≤ 100 W | Approx. 3 sec. | Green and orange alternate |
| 3 | Suspend (2nd mode) | blank | present | absent | ≤ 15 W | Approx. 3 sec. | Green and orange alternate |
| 4 | Active-off (3rd mode) | blank | absent | absent | < 5 W | Approx. 10 sec. | Orange |
| 5 | Power-off | — | — | — | 0 W | — | Off |

## DIAGNOSIS

| Failre | Power LED |
|---|---|
| +B failure | Orange → Off<br>(0.5 sec) (0.5 sec) |
| Horizontal / Vertical Deflection failure, Thermal protector | Orange → Off<br>(1.5 sec) (0.5 sec) |
| ABL protector | Orange → Off<br>(0.5 sec) (1.5 sec) |
| HV failure | Orange → Off → Orange → Off<br>(0.25 sec) (0.5 sec) (0.25 sec) (1.25 sec) |
| Aging / Self Test | Orange → Off → Green → Off<br>(0.5 sec) (0.5 sec) (0.5 sec) (0.5 sec) |

Aging Mode (Video Aging) : During Power Save, press "MENU" key for longer than 2 second.
Self Test (OSD Color Bar) : During Power Save, press "CONTRAST" + (➡) key for longer than 2 second.
Reliability Check Mode : During Power Save, press "CONTRAST" – (⬅) key for longer than 2 second.

## TIMING SPECIFICATION

| MODE | | | | | | | | TEST MODE |
|---|---|---|---|---|---|---|---|---|
| MODE AT PRODUCTION | MODE 1 | MODE 2 | MODE 3 | MODE 4 | MODE 5 | MODE 6 | MODE 7 | MODE 8 |
| RESOLUTION | 656 X 496 | 640 X 480 | 800 X 600 | 1024 X 768 | 1280 X 1024 | 1280 X 1024 | 1600 X 1200 | 1600 X 1200 |
| CLOCK | 25.175 MHZ | 36.000 MHZ | 56.250 MHZ | 94.500 MHZ | 135.000 MHZ | 157.500 MHZ | 202.500 MHZ | 229.500 MHZ |
| — HORIZONTAL — | | | | | | | | |
| H-FREQ | 31.469 kHz | 43.269 kHz | 53.674 kHz | 68.677 kHz | 79.976 kHz | 91.146 kHz | 93.750 kHz | 106.250 kHz |
| | usec | usec | usec | usec | usec | usec | usec | usec |
| H. TOTAL | 31.778 | 23.111 | 18.631 | 14.561 | 12.504 | 10.971 | 10.667 | 9.412 |
| H. BLK | 5.720 | 5.333 | 4.409 | 3.725 | 3.022 | 2.844 | 2.765 | 2.440 |
| H. FP | 0.318 | 1.556 | 0.569 | 0.508 | 0.119 | 0.406 | 0.316 | 0.279 |
| H. SYNC | 3.813 | 1.556 | 1.138 | 1.016 | 1.067 | 1.016 | 0.948 | 0.837 |
| H. BP | 1.589 | 2.222 | 2.702 | 2.201 | 1.837 | 1.422 | 1.501 | 1.325 |
| H. ACTIV | 26.058 | 17.778 | 14.222 | 10.836 | 9.481 | 8.127 | 7.901 | 6.972 |
| — VERTICAL — | | | | | | | | |
| V. FREQ(HZ) | 59.940 Hz | 85.008 Hz | 85.061 Hz | 84.997 Hz | 75.025 Hz | 85.024 Hz | 75.000 Hz | 85.000 Hz |
| | lines | lines | lines | lines | lines | lines | lines | lines |
| V. TOTAL | 525 | 509 | 631 | 808 | 1066 | 1072 | 1250 | 1250 |
| V. BLK | 29 | 29 | 31 | 40 | 42 | 48 | 50 | 50 |
| V. FP | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| V. SYNC | 2 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
| V. BP | 25 | 25 | 27 | 36 | 38 | 44 | 46 | 46 |
| V. ACTIV | 496 | 480 | 600 | 768 | 1024 | 1024 | 1200 | 1200 |
| — SYNC — | | | | | | | | |
| INT(G) | NO | NO | NO | NO | NO | NO | NO | NO |
| EXT(H/V)/POLARITY | YES N/N | YES N/N | YES P/P | YES P/P | YES P/P | YES P/P | YES P/P | YES P/P |
| EXT(CS) /POLARITY | NO | NO | NO | NO | NO | NO | NO | NO |
| INT/NON INT | NON INT | NON INT | NON INT | NON INT | NON INT | NON INT | NON INT | NON INT |

97.12.10 VER.

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Note: Hand degauss must be used on stand-by or power-off condition.
This model has an automatic earth magnetism correction function by using an earth magnetism sensor and a LCC coil. When using a hand degauss while monitor (LCC coil) is being operated, it sometimes gets magnetized, and the system may not work properly as a result.

**The operating instructions mentioned here are partial abstracts from the Operating Instruction Manual. The page numbers of the Operating Instruction Manual remain as in the manual.**

# SECTION 1
# GENERAL



## Precautions

### Installation

- Prevent internal heat build-up by allowing adequate air circulation. Do not place the monitor on surfaces (rugs, blankets, etc.) or near materials (curtains, draperies) that may block the ventilation holes.
- Do not install the monitor near heat sources such as radiators or air ducts, or in a place subject to direct sunlight, excessive dust, mechanical vibration or shock.
- Do not place the monitor near equipment which generates magnetism, such as a transformer or high voltage power lines.

### Maintenance

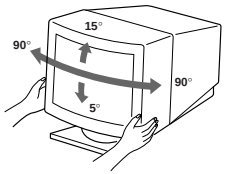
- Clean the cabinet, panel and controls with a soft cloth lightly moistened with a mild detergent solution. Do not use any type of abrasive pad, scouring powder or solvent, such as alcohol or benzine.
- Do not rub, touch, or tap the surface of the screen with sharp or abrasive items such as a ballpoint pen or screwdriver. This type of contact may result in a scratched picture tube.

### Transportation

When you transport this monitor for repair or shipment, use the original carton and packing materials.

### Use of the Tilt-Swivel

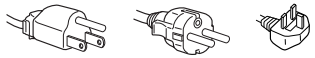
With the tilt-swivel, this monitor can be adjusted to the desired angle within 180° horizontally and 20° vertically. To turn the monitor vertically and horizontally, hold it at the bottom with both hands as illustrated below.




### Warning on power connection

- Use an appropriate power cord for your local power supply.

**Examples of plug types**



for 100 to 120 V AC | for 200 to 240 V AC | for 240 V AC only

- Before disconnecting the power cord, wait at least 30 seconds after turning off the power to allow the static electricity on the CRT display surface to discharge.
- After the power has been turned on, the CRT is demagnetized (degaussed) for about 3 seconds. This generates a strong magnetic field around the metal frame, which may affect the data stored on magnetic tapes and disks near the bezel. Place magnetic recording equipment, tapes and disks away from this monitor.

The outlet should be installed near the equipment and be easily accessible.

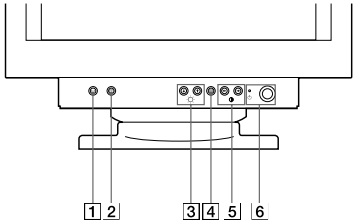




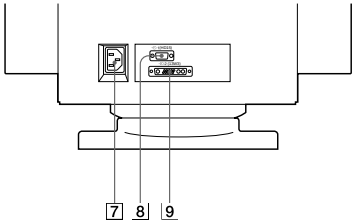
## Identifying Parts and Controls

See the pages in parentheses for further details.

**Front**




**Rear**




1 **(reset) button (page 14)**
Resets the adjustments to the factory settings.

2 **(auto sizing and centering) button (page 5)**
Automatically adjusts the size and centering of the images.

3 **(brightness) (↓/↑) buttons (pages 5 – 14)**
Adjust the picture brightness.

Function as the (↓/↑) buttons when adjusting other items.

4 **(menu) button (pages 5 – 14)**
Displays the MENU OSD.

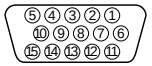
5 **(contrast) (←/→) buttons (pages 5 – 14, 18)**
Adjust the contrast.

Function as the (←/→) buttons when adjusting other items.

6 **(power) switch and indicator (pages 15, 18)**
Turns the monitor on or off.
The indicator lights up in green when the monitor is turned on, and lights up in orange when the monitor is in power saving mode.

7 **AC IN connector**
Provides AC power to the monitor.

8 **Video input 1 connector (HD15)**
Inputs RGB video signals (0.700 Vp-p, positive) and SYNC signals.



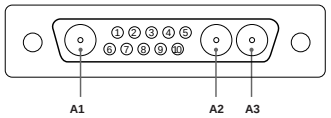

| Pin No. | Signal | Pin No. | Signal |
|---|---|---|---|
| 1 | Red | 8 | Blue Ground |
| 2 | Green (Composite Sync on Green) | 9 | DDC + 5V* |
| | | 10 | Ground |
| | | 11 | ID (Ground) |
| 3 | Blue | 12 | Bi-Directional Data (SDA)* |
| 4 | ID (Ground) | | |
| 5 | DDC Ground* | 13 | H. Sync |
| 6 | Red Ground | 14 | V. Sync |
| 7 | Green Ground | 15 | Data Clock(SCL)* |

* Display Data Channel (DDC) Standard of VESA

*(continued)*

EN

**9 Video input 2 connector (13W3 cable)**
Inputs RGB video signal (0.700 Vp-p, positive).




| Pin No. | Signal | Pin No. | Signal |
|---|---|---|---|
| A1 | Red Video & Ground | 4 | Ground |
| | | 5 | C.Sync* |
| A2 | Green Video & Ground | 6 | — |
| | | 7 | Bi-Directional Data (SDA)** |
| A3 | Blue Video & Ground | | |
| | | 8 | DDC + 5V** |
| 1 | — | 9 | V.Sync |
| 2 | Data Clock (SCL)** | 10 | Ground |
| 3 | — | | |

* Pins serve a dual purpose as combined sync input and as H.sync input if V.Sync is present on pin no. 9.
** Display Data Channel (DDC) Standard by VESA

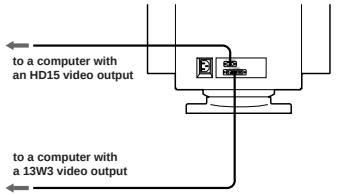
**Note**
If you use a computer or video board of high output level (about 1.0 Vp-p), you may not be able to obtain the optimum display. In such case, try decreasing the picture contrast, or use a computer or video board with a lower output level.

## Setup

This monitor works with platforms running at horizontal frequencies between 30 and 107 kHz.

### Step 1: Connect the monitor to the computer

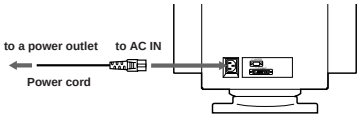
With the computer switched off, connect the video signal cable to the video output of the computer.




**Note**
Do not short the pins of the video signal cable.

### Step 2: Connect the power cord

With the monitor switched off, connect one end of the proper power cord for your local supply to the monitor and the other end to a power outlet.




### Step 3: Turn on the monitor and computer

The installation of your monitor is complete.

**Note**
If "OUT OF SCAN RANGE" or "NO INPUT SIGNAL" appears on the screen, see "Warning Messages" on page 16.



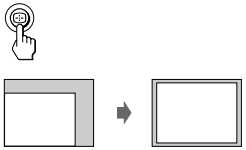


## Automatically Adjusting the Size and Centering of the Picture

By pressing the ⊖ button, the size and centering of the picture are automatically adjusted to fit the screen.

**1 Turn on the monitor and computer.**

**2 Press the ⊖ button.**
The picture is adjusted to fit the center of the screen.



**Notes**
- This function is intended for use with a computer running graphic user interface software that provides a full-screen picture. It may not work properly if the background color is dark or if the input picture does not fill the screen to the edges.
- The screen may go blank for a few seconds while performing the auto-sizing function. This is not a malfunction.
- Although the signals for picture aspect ratio 5:4 (resolution: 1280 × 1024) do not fill the screen to the edges, the picture is accurately displayed.

## Selecting the On-screen Display Language

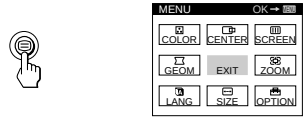
If you need to change the OSD language, see "Using the LANG (Language) On-screen Display" on page 14.
The default setting is English.

## Selecting the Input Signal

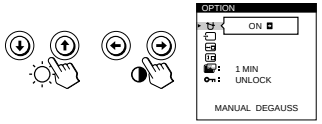
This monitor has two signal input connectors (HD15 and 13W3) and can be connected to two computers simultaneously. Select the input signal you want to view as follows.

**1 Turn on the monitor and both computers.**

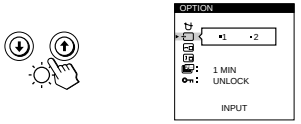
**2 Press the ⊜ button.**
The MENU OSD appears.




**3 Press the ☼↓/↑ and ◑←/→ buttons to select " OPTION," and press the ⊜ button again.**
The OPTION OSD appears.




**4 Press the ☼↓/↑ buttons to select " (INPUT)."**




*(continued)*

**5** **Press the ◑⬅/➡ buttons to select "1" or "2."**

**When "1" is selected**
The signal from the computer connected to the HD15 connector is input to the monitor.

**When "2" is selected**
The signal from the computer connected to the 13W3 connector is input to the monitor.

The OPTION OSD automatically disappears after about 30 seconds.
To close the OSD, press the ⊜ button again.

For more information on using the OSD, see "Introducing the On-screen Display System" on page 7.

**When you connect computers to both connectors**
If you restart the computer you want to view, or that computer is in power saving mode, the monitor may automatically select the other connector's signal. This is because the monitor switches from the interrupted signal to the constant signal. If this happens, manually select the desired signal.



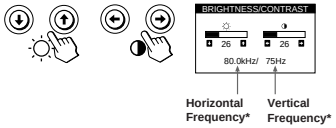


**Before adjusting**
- Connect the monitor and the computer, and turn them on.
- Select "🅰 LANG" in the MENU OSD, then select "ENGLISH" (see page 14).

## Adjusting the Picture Brightness and Contrast

Once the setting is adjusted, it will be stored in memory for all input signals received.

**1** **Press the ☼ (brightness) ⬇/⬆ or ◑ (contrast) ⬅/➡ buttons.**
The BRIGHTNESS/CONTRAST OSD appears.




**2** **For brightness adjustment**
Press the ☼⬇/⬆ buttons.

⬆ . . . for more brightness
⬇ . . . for less brightness

**For contrast adjustment**
Press the ◑⬅/➡ buttons.

➡ . . . for more contrast
⬅ . . . for less contrast

The OSD automatically disappears after about 3 seconds.

To reset, press the ⇢ (reset) button while the OSD is on. The brightness and contrast are both reset to the factory settings.

* The horizontal and vertical frequencies for the received input signal appear in the BRIGHTNESS/CONTRAST OSD.



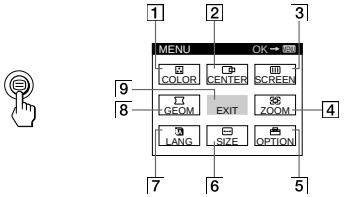


## Introducing the On-screen Display System

Most adjustments are made using the MENU OSD.

**MENU OSD**

**Press the ⊜ button to display the MENU OSD.**
This MENU OSD contains links to the other OSDs described below.




1 **COLOR**
Displays the COLOR OSD for adjusting the color temperature.

2 **CENTER**
Displays the CENTER OSD for adjusting the centering of the picture.

3 **SCREEN**
Displays the SCREEN OSD for adjusting the vertical and horizontal convergence, etc.

4 **ZOOM**
Displays the ZOOM OSD for enlarging and reducing the picture.

5 **OPTION**
Displays the OPTION OSD for adjusting the OSD position and degaussing the screen, etc.

6 **SIZE**
Displays the SIZE OSD for adjusting the picture size.

7 **LANG**
Displays the LANGUAGE OSD for selecting the language.

8 **GEOM**
Displays the GEOMETRY OSD for adjusting the picture rotation and pincushion, etc.

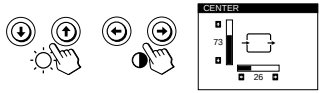
9 **EXIT**
Closes the MENU OSD.

## Using the CENTER On-screen Display

The CENTER settings allow you to adjust the centering of the picture.
Once the setting is adjusted, it will be stored in memory for the current input signal.

**1** **Press the ⊜ button.**
The MENU OSD appears.

**2** **Press the ☼⬇/⬆ and ◑⬅/➡ buttons to select " CENTER," and press the ⊜ button again.**
The CENTER OSD appears.




**3** **For horizontal adjustment**
Press the ◑⬅/➡ buttons.

➡ . . . to move the picture right
⬅ . . . to move the picture left

**For vertical adjustment**
Press the ☼⬇/⬆ buttons.

⬆ . . . to move the picture up
⬇ . . . to move the picture down

The OSD automatically disappears after about 30 seconds.
To close the OSD, press the ⊜ button again.

To reset, press the ⇢ (reset) button while the OSD is on. The horizontal and vertical centerings are both reset to the factory settings.

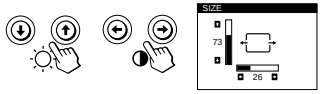
EN

## Using the SIZE On-screen Display

The SIZE settings allow you to adjust the size of the picture.
Once the setting is adjusted, it will be stored in memory for the current input signal.

**1 Press the ⊜ button.**
The MENU OSD appears.

**2 Press the ☼↓/↑ and ◑←/→ buttons to select " ⟷ SIZE," and press the ⊜ button again.**
The SIZE OSD appears.




**3 For horizontal adjustment**
Press the ◑←/→ buttons.

→ . . . to increase picture width
← . . . to decrease picture width

**For vertical adjustment**
Press the ☼↓/↑ buttons.

↑ . . . to increase picture height
↓ . . . to decrease picture height

The OSD automatically disappears after about 30 seconds.
To close the OSD, press the ⊜ button again.

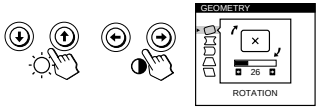
To reset, press the ⇢ (reset) button while the OSD is on.
The horizontal and vertical sizes are both reset to the factory settings.

## Using the GEOM (Geometry) On-screen Display

The GEOM (geometry) settings allow you to adjust the shape and orientation of the picture.
Once the rotation is adjusted, it will be stored in memory for all input signals received. All other adjustments will be stored in memory for the current input signal.

**1 Press the ⊜ button.**
The MENU OSD appears.

**2 Press the ☼↓/↑ and ◑←/→ buttons to select " ▱ GEOM," and press the ⊜ button again.**
The GEOMETRY OSD appears.




**3 Press the ☼↓/↑ buttons to select the item you want to adjust.**

| Select | To |
|---|---|
| ▱ ROTATION | adjust the picture rotation |
| ▯ PINCUSHION | adjust the picture sides |
| ▱ PIN BALANCE | adjust the picture side balance |
| ▽ KEYSTONE | adjust the picture width |
| ▽ KEY BALANCE | adjust the picture shape balance |





**4 Press the ◑←/→ buttons to adjust the settings.**

| For | Press |
|---|---|
| ▱ ROTATION | → . . . to rotate the picture clockwise ← . . . to rotate the picture counterclockwise |
| ▯ PINCUSHION | → . . . to expand the picture sides ← . . . to contract the picture sides |
| ▱ PIN BALANCE | → . . . to move the picture sides to the right ← . . . to move the picture sides to the left |
| ▽ KEYSTONE | → . . . to increase the picture width at the top ← . . . to decrease the picture width at the top |
| ▽ KEY BALANCE | → . . . to move the top of the picture to the right ← . . . to move the top of the picture to the left |

The OSD automatically disappears after about 30 seconds.
To close the OSD, press the ⊜ button again.

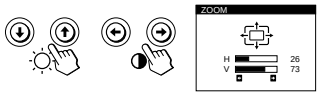
To reset, press the ⇢ (reset) button while the OSD is on.
The selected item is reset to the factory setting.

## Using the ZOOM On-screen Display

The ZOOM settings allow you to enlarge or reduce the picture.
Once the setting is adjusted, it will be stored in memory for the current input signal.

**1 Press the ⊜ button.**
The MENU OSD appears.

**2 Press the ☼↓/↑ and ◑←/→ buttons to select " ⊠ ZOOM," and press the ⊜ button again.**
The ZOOM OSD appears.




**3 Press the ◑←/→buttons to adjust the picture zoom.**

→ . . . to enlarge the picture
← . . . to reduce the picture

The OSD automatically disappears after about 30 seconds.
To close the OSD, press the ⊜ button again.

To reset, press the ⇢ (reset) button while the OSD is on.

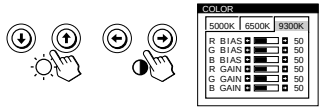
**Note**
The picture zoom adjustment will stop as soon as either the horizontal or vertical size reaches its maximum or minimum value.

## Using the COLOR On-screen Display

You can change the monitor's color temperature. For example, you can adjust or change the colors of a picture on the screen to match the actual colors of the printed picture. Once the setting is adjusted, it will be stored in memory for all input signals received.

**1 Press the ⊜ button.**
The MENU OSD appears.

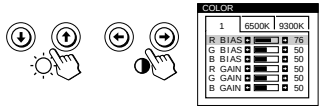
**2 Press the ☼↓/↑ and ◑←/→ buttons to select " COLOR," and press the ⊜ button again.**
The COLOR OSD appears.




**3 Press the ◑←/→ buttons to select the color temperature.**

There are three color temperature modes in the OSD.
The preset adjustments are:
5000K, 6500K, 9300K

**4 Fine tuning the color temperature**
Press the ☼↓/↑ buttons to select an item and adjust by pressing the ◑←/→ buttons.




Select **R (red), G (green), or B (blue) BIAS** to adjust the black level of each color's signal.

Select **R (red), G (green), or B (blue) GAIN** to adjust the white level of each color's signal.

The "5000K," "6500K" or "9300K" disappears and the new color settings are memorized for each of the three color modes.
The color temperature modes change as follows:
5000K→ 1, 6500K→ 2, 9300K→ 3

The OSD automatically disappears after about 30 seconds. To close the OSD, press the ⊜ button again.

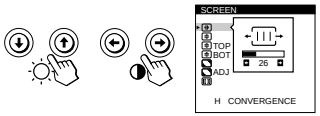
To reset, press the ⇢ (reset) button while the OSD is on. The selected item is reset to the factory settings.

## Using the SCREEN On-screen Display

You can adjust convergence settings to eliminate red or blue shadows that may appear around objects on the screen. Adjust the CANCEL MOIRE function to eliminate wavy or elliptical patterns that may appear on the screen.
Adjust the LANDING function to correct color imbalances at the four corners of the screen due to influence from the earth's magnetism.
Once CANCEL MOIRE is adjusted, it will be stored in memory for the current input signal. All other adjustments will be stored in memory for all input signals received.

**1 Press the ⊜ button.**
The MENU OSD appears.

**2 Press the ☼↓/↑ and ◑←/→ buttons to select " SCREEN," and press the ⊜ button again.**
The SCREEN OSD appears.




**3 Press the ☼↓/↑ buttons to select the item you want to adjust.**

| Select | To |
|---|---|
| H CONVERGENCE | adjust the horizontal convergence |
| V CONVERGENCE | adjust the vertical convergence |
| **TOP** V CONVER TOP | adjust the screen's upper vertical convergence |
| **BOT** V CONVER BOTTOM | adjust the screen's lower vertical convergence |

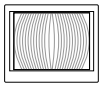




| Select | To |
|---|---|
| LANDING | select one of the four corners that needs color correction due to influence from the earth's magnetism |
| **ADJ** LANDING ADJUST | correct the color at one of the four corners of the screen |
| CANCEL MOIRE * | turn the moire cancellation function "ON" or "OFF." CANCEL MOIRE must be "ON" for " ADJ (MOIRE ADJUST)" to appear on the screen. |
| **ADJ** MOIRE ADJUST | adjust the degree of moire cancellation |

* Moire is a type of natural interference which produces soft or wavy lines on your screen. It may appear due to interference between the regulated pattern of the picture from the input signal and the phosphor pitch pattern of the CRT.

**Example of moire:**



**4 Press the ◑←/→ buttons to adjust the settings.**

| For | Press |
|---|---|
| H CONVERGENCE | → . . . to shift red shadows to the right and blue shadows to the left<br>← . . . to shift red shadows to the left and blue shadows to the right |
| V CONVERGENCE | → . . . to shift red shadows up and blue shadows down<br>← . . . to shift red shadows down and blue shadows up |
| **TOP** V CONVER TOP | → . . . to shift red shadows up and blue shadows down<br>← . . . to shift red shadows down and blue shadows up |
| **BOT** V CONVER BOTTOM | → . . . to shift red shadows up and blue shadows down<br>← . . . to shift red shadows down and blue shadows up |
| LANDING | → or ← . . . to select the corner of the screen you want to adjust<br>: top left, : top right, : bottom left, : bottom right |
| **ADJ** LANDING ADJUST | → or ← . . . to reduce any irregularities in the color to a minimum |
| CANCEL MOIRE | → . . . to turn CANCEL MOIRE "ON"<br>← . . . to turn CANCEL MOIRE "OFF" |
| **ADJ** MOIRE ADJUST | → or ← . . . to adjust the screen until the moire is at a minimum |

**Note**
The picture may become fuzzy when CANCEL MOIRE is set to "ON."

The OSD automatically disappears after about 30 seconds. To close the OSD, press the ⊜ button again.

To reset, press the ⇢ (reset) button while the OSD is on. The selected item is reset to the factory setting.

EN

# Using the OPTION On-screen Display

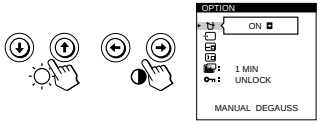
The OPTION OSD allows you to manually degauss the screen and adjust settings such as the OSD position and power saving delay time. It also allows you to lock the controls.

## Degaussing the screen

The monitor screen is automatically degaussed (demagnetized) when the power is turned on.
You can also manually degauss the monitor.

**1 Press the ⊜ button.**
The MENU OSD appears.

**2 Press the ☼↓/↑ and ◑←/→ buttons to select " OPTION," and press the ⊜ button again.**
The OPTION OSD appears.




**3 Press the ☼↓/↑ buttons to select " (MANUAL DEGAUSS)."**

**4 Press the ◑→ button.**
The screen is degaussed for about 3 seconds.

If you need to degauss the screen a second time, wait for at least 20 minutes before repeating the steps above.

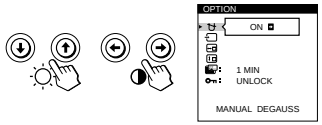
The OPTION OSD automatically disappears after about 30 seconds.
To close the OSD, press the ⊜ button again.

## Changing the on-screen display position

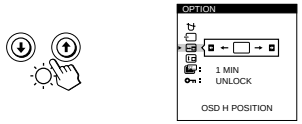
You can change the OSD position (for example, when you want to adjust the picture behind the OSD).

**1 Press the ⊜ button.**
The MENU OSD appears.

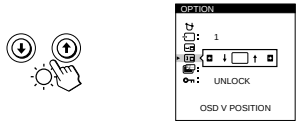
**2 Press the ☼↓/↑ and ◑←/→ buttons to select " OPTION," and press the ⊜ button again.**
The OPTION OSD appears.




**3 Press the ☼↓/↑ buttons to select " (OSD H POSITION)" or " (OSD V POSITION)."**
Select " (OSD H POSITION)" to adjust the horizontal position.




Select " (OSD V POSITION)" to adjust the vertical position.




**4 Press the ◑←/→ buttons to move the OSD to the desired position.**

The OPTION OSD automatically disappears after about 30 seconds.
To close the OSD, press the ⊜ button again.

To reset, press the ⇢ (reset) button while the OSD is on.



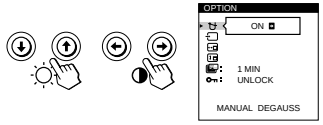


## Setting the power saving delay time

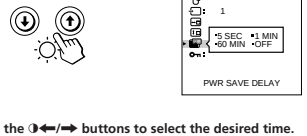
You can set the delay time before the monitor enters the power saving mode. See page 15 for more information on this monitor's power saving capabilities.

**1 Press the ⊜ button.**
The MENU OSD appears.

**2 Press the ☼↓/↑ and ◑←/→ buttons to select " OPTION," and press the ⊜ button again.**
The OPTION OSD appears.




**3 Press the ☼↓/↑ buttons to select " (PWR SAVE DELAY)."**




**4 Press the ◑←/→ buttons to select the desired time.**

When PWR SAVE DELAY is set to "OFF," the monitor does not go into power saving mode.

The OPTION OSD automatically disappears after about 30 seconds.
To close the OSD, press the ⊜ button again.

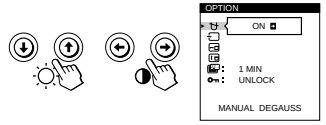
To reset, press the ⇢ (reset) button while the OSD is on.

## Locking the controls

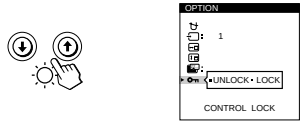
The control lock function disables all of the buttons on the front panel except the ⏻ (power) switch and ⊜ button.

**1 Press the ⊜ button.**
The MENU OSD appears.

**2 Press the ☼↓/↑ and ◑←/→ buttons to select " OPTION," and press the ⊜ button again.**
The OPTION OSD appears.




**3 Press the ☼↓/↑ buttons to select " (CONTROL LOCK)."**




**4 Press the ◑←/→ buttons to select "LOCK."**

The OPTION OSD automatically disappears after about 30 seconds.
To close the OSD, press the ⊜ button again.

Once you select "LOCK," you cannot select any items except "EXIT" and " OPTION" in the MENU OSD.
If you press any button other than the ⏻ (power) switch and ⊜ button, the 🔑 mark appears on the screen.

### To cancel the control lock

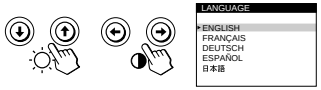
Repeat steps 1 through 3 above and press the ◑←/→ buttons to select "UNLOCK."

## Using the LANG (Language) On-screen Display

English, French, German, Spanish and Japanese versions of the OSDs are available.

**1 Press the ⊜ button.**
The MENU OSD appears.

**2 Press the ☼/↓/↑ and ◑/←/→ buttons to select "🅰 LANG," and press the ⊜ button again.**
The LANGUAGE OSD appears.




**3 Press the ☼/↓/↑ buttons to select the desired language.**

ENGLISH: English, FRANÇAIS: French,
DEUTSCH: German, ESPAÑOL: Spanish,
or 日本語: Japanese.

The OSD automatically disappears after about 30 seconds. To close the OSD, press the ⊜ button again.

To reset to English, press the ⇢ (reset) button while the OSD is on.

## Resetting the Adjustments

### Resetting an adjustment item

**1 Press the ⊜, ☼/↓/↑ and ◑/←/→ buttons to select the OSD containing the item you want to reset.**

**2 Press the ☼/↓/↑ buttons to select the item you want to reset.**

**3 Press the ⇢ (reset) button.**

### Resetting all of the adjustment data for the current input signal

**When there is no OSD displayed, press the ⇢ (reset) button.**
All of the adjustments data for the current input signal is reset to the factory settings.
Note that adjustment data not affected by changes in input signal (OSD language, OSD position, input signal selection, power saving delay time and the control lock function) is not reset to the factory settings.

### Resetting all of the adjustment data for all input signals

**Press and hold the ⇢ (reset) button for more than two seconds.**
All of the adjustment data, including the brightness and contrast, is reset to the factory settings.

## Power Saving Function

This monitor meets the power-saving guidelines set by VESA and Energy Star, as well as the more stringent NUTEK .
If the monitor is connected to a computer or video graphics board that is VESA DPMS (Display Power Management Signaling) compliant, the monitor will automatically reduce power consumption in three stages as shown below.

You can set the delay time before the monitor enters the power saving mode using the OSD. Set the time according to "Setting the power saving delay time" on page 13.

**Note**
If no video signal is input to the monitor, the "NO INPUT SIGNAL" message (page 16) appears. After the delay time has passed, the power saving function automatically puts the monitor into the active-off mode and the ⏻ indicator lights up orange. Once the horizontal and vertical sync signals are detected, the monitor automatically resumes its normal operation mode.

| | Power consumption mode | Screen | Horizontal sync signal | Vertical sync signal | Power consumption | Recovery time | ⏻ indicator |
|---|---|---|---|---|---|---|---|
| 1 | Normal operation | active | present | present | ≤ 160 W | — | Green |
| 2 | Standby (1st mode) | blank | absent | present | ≤ 100 W | Approx. 3 sec. | Green and orange alternate |
| 3 | Suspend (2nd mode) | blank | present | absent | ≤ 15 W | Approx. 3 sec. | Green and orange alternate |
| 4 | Active-off (3rd mode) | blank | absent | absent | < 5 W | Approx. 10 sec. | Orange |
| 5 | Power-off | — | — | — | 0 W | — | Off |

## Preset Modes

| No. | Resolution (dots × lines) | Horizontal Frequency | Vertical Frequency | Graphics Mode |
|---|---|---|---|---|
| 1 | 640 × 480 | 31.5 kHz | 60 Hz | VGA |
| 2 | 640 × 480 | 43.3 kHz | 85 Hz | VESA |
| 3 | 800 × 600 | 53.7 kHz | 85 Hz | VESA |
| 4 | 1024 × 768 | 68.7 kHz | 85 Hz | VESA |
| 5 | 1280 × 1024 | 80.0 kHz | 75 Hz | VESA |
| 6 | 1280 × 1024 | 91.1 kHz | 85 Hz | VESA |
| 7 | 1600 × 1200 | 93.8 kHz | 75 Hz | VESA |
| 8 | 1600 × 1200 | 106.3 kHz | 85 Hz | VESA |

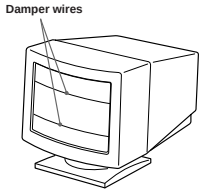
## Plug & Play

This monitor complies with the DDC™1, DDC2B, DDC2AB and DDC2B+ Display Data Channel (DDC) standards of VESA.
When a DDC1 host system is connected, the monitor synchronizes with the V. CLK in accordance with the VESA standards and outputs the EDID (Extended Display Identification Data) to the data line.
When a DDC2B, DDC2AB or DDC2B+ host system is connected, the monitor automatically switches to the appropriate standard.

DDC™ is a trademark of the Video Electronics Standard Association.

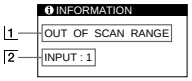
## Damper Wires

When viewing a white background, very thin horizontal lines may be visible on the screen as shown below. These lines are the shadows of the damper wires and are characteristic of CRTs that use aperture grilles. The wires are attached to the aperture grille on the inside of the Trinitron tube and prevent the vibration of the aperture grille.



## Warning Messages

If there is something wrong with the input signal, one of the following messages appears.




**1 The input signal condition**

**"OUT OF SCAN RANGE"** indicates that the input signal is not supported by the monitor's specifications.

**"NO INPUT SIGNAL"** indicates that no signal is input, or the input signal from the selected input connector is not received.

**2 The selected input connector**

Indicates which input connector is receiving the wrong signal. If there is something wrong with the signal from both input connectors, "1" (HD15) and "2" (13W3) are displayed alternately.

To solve these problems, see "Troubleshooting" below.

## Troubleshooting

This section may help you isolate the cause of a problem and as a result, eliminate the need to contact technical support.

| Symptom | Check these items |
|---|---|
| **No picture** | |
| If the ⏻ indicator is not lit | • Check that the power cord is properly connected.<br>• Check that the ⏻ (power) switch is in the "on" position. |
| If the "NO INPUT SIGNAL" message appears on the screen, or if the ⏻ indicator is either orange or alternating between green and orange | • The screen is blank when the monitor is in power saving mode. Try pressing any key on the computer keyboard.<br>• Check that your computer power switch is in the "on" position.<br>• Check that the input select setting is correct.<br>• Check that the video signal cable is properly connected and all plugs are firmly seated in their sockets.<br>• Ensure that no pins are bent or pushed in the HD15 or 13W3 video input connector.<br>• Check that the video board is completely seated in the proper bus slot. |
| If the "OUT OF SCAN RANGE" message appears on the screen | • Check that the video frequency range is within that specified for the monitor. (Horizontal: 30 – 107 kHz, Vertical: 50 – 160 Hz) Refer to your computer's instruction manual to adjust the video frequency range.<br>• If you are using a video signal cable adapter, check that it is correct. |
| If no message is displayed and the ⏻ indicator is green or flashing orange | • See "Self-diagnosis Function" (page 18). |
| **Picture is scrambled** | • Check your graphics board manual for the proper monitor setting.<br>• Check this manual and confirm that the graphics mode and the frequency you are trying to operate at is supported. Even if the frequency is within the proper range, some video boards may have a sync pulse that is too narrow for the monitor to sync correctly. |
| **Color is not uniform** | • Degauss the monitor (page 12). If you place equipment which generates a magnetic field, such as a loudspeaker, near the monitor, or you change the direction of the monitor, color may lose uniformity. The degauss function demagnetizes the metal frame of the CRT to obtain a neutral field for uniform color reproduction. If a second degauss cycle is needed, allow a minimum interval of 20 minutes for the best result.<br>• Adjust the landing (pages 10 – 11). |



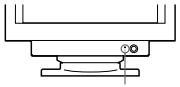




| Symptom | Check these items |
|---|---|
| **You cannot adjust the monitor with the buttons on the front panel** | • If the control lock function is set to on, set it to off using the OPTION OSD (page 13). |
| **White does not look white** | • Adjust the color temperature (page 10). |
| **Screen image is not centered or sized properly** | • Press the ⊡ button (page 5).<br>• Adjust the size or centering (pages 7 – 8).<br>• Some video modes do not fill the screen to the edges. This problem tends to occur with certain video boards. |
| **Edges of the image are curved** | • Adjust the geometry (pages 8 – 9). |
| **White lines show red or blue shadows at edges** | • Adjust the convergence (pages 10 – 11). |
| **Picture is fuzzy** | • Adjust the contrast and brightness (page 6).<br>• Degauss the monitor (page 12). If you place equipment which generates a magnetic field, such as a loudspeaker, near the monitor, or you change the direction of the monitor, color may lose uniformity. The degauss function demagnetizes the metal frame of the CRT to obtain a neutral field for uniform color reproduction. If a second degauss cycle is needed, allow a minimum interval of 20 minutes for the best result.<br>• If red or blue shadows appear along the edges of images, adjust the convergence (pages 10 – 11).<br>• If the moire is cancelled, the picture may become fuzzy. Decrease the moire cancellation effect (pages 10 – 11). |
| **Picture bounces or has wavy oscillations** | • Isolate and eliminate any potential sources of electric or magnetic fields. Common causes for this symptom are electric fans, fluorescent lighting or laser printers.<br>• If you have another monitor close to this monitor, increase the distance between them to reduce the interference.<br>• Try plugging the monitor into a different AC outlet, preferably on a different circuit.<br>• Try the monitor on a different computer in a different room. |
| **Picture is flickering** | • Set the refresh rate on the computer to obtain the best possible picture by referring to the computer's manual. |
| **Picture appears to be ghosting** | • Eliminate the use of video cable extensions and/or video switch boxes if this symptom occurs. Excessive cable length or a weak connection can produce this symptom. |
| **Wavy or elliptical (moire) pattern is visible** | • Cancel the moire (pages 10 – 11). The moire may be modified depending on the connected computer.<br>• Due to the relationship between resolution, monitor dot pitch and the pitch of some image patterns, certain screen backgrounds sometimes show moire. Change your desktop pattern. |
| **Two fine horizontal lines (wires) are visible** | • These wires stabilize the vertically striped aperture grille (page 15). This aperture grille allows more light to pass through to the screen giving the Trinitron CRT more color and brightness. |
| **Hum is heard right after the power is turned on** | • When the power is turned on, the auto-degauss cycle is activated. While the auto-degauss cycle is activated (3 seconds), a hum may be heard. The same hum is heard when the monitor is manually degaussed. This is not a malfunction. |

## Self-diagnosis Function

This monitor is equipped with a self-diagnosis function. If there is a problem with your monitor or computer(s), the screen will go blank and the ⏻ indicator will either light up green or flash orange.



⏻ indicator

### If the ⏻ indicator is green

**1 Remove any plugs from the video input 1 and 2 connectors, or turn off the connected computer(s).**

**2 Press and hold the ◑→ button for 2 seconds.**

If all four color bars appear (white, red, green, blue), the monitor is working properly. Reconnect the video input cables and check the condition of your computer(s).

If the color bars do not appear, there is a potential monitor failure. Inform your service representative of the monitor's condition.

### If the ⏻ indicator is flashing orange

**Press the ⏻ button to turn the monitor off and on.**

If the ⏻ indicator lights up green, the monitor is working properly.

If the ⏻ indicator is still flashing, there is a potential monitor failure. Count the number of seconds between orange flashes of the ⏻ indicator and inform your service representative of the monitor's condition. Be sure to note the model name and serial number of your monitor. Also note the make and model of your computer and video board.

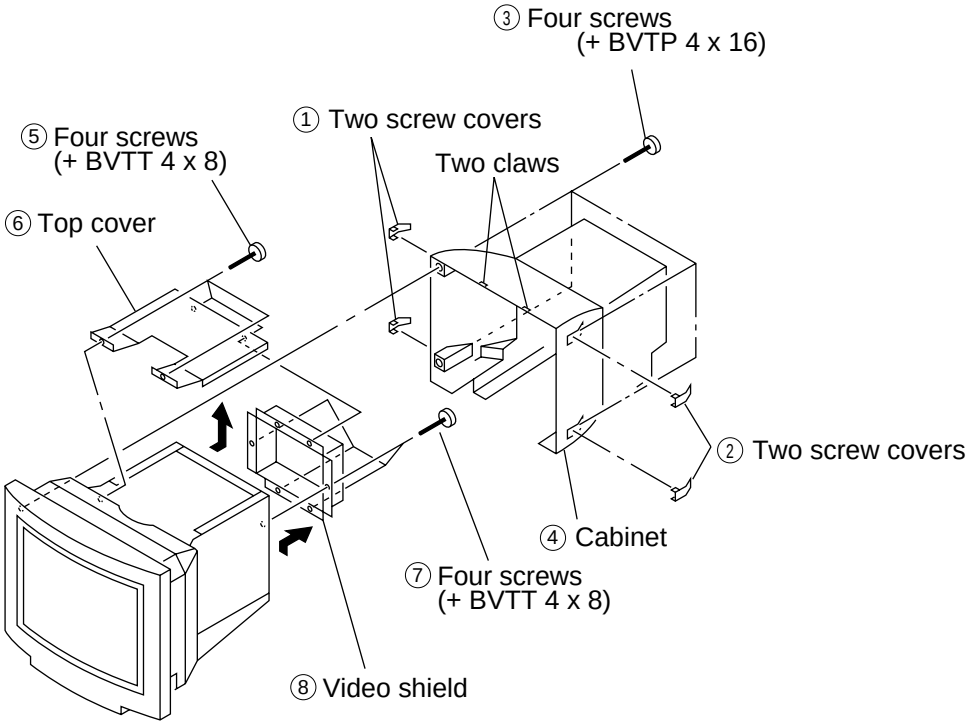
## Specifications

| | |
|---|---|
| Picture tube | 0.25 – 0.27 mm aperture grille pitch<br>21 inches measured diagonally<br>90-degree deflection |
| Viewable image size | Approx. 403.8 × 302.2 mm (w/h)<br>(16 × 12 inches)<br>19.8" viewing image |
| Resolution | Horizontal: Max. 1600 dots<br>Vertical: Max. 1200 lines |
| Standard image area | Approx. 388 × 291 mm (w/h)<br>($15\ ^{3}/_{8} \times 11\ ^{1}/_{2}$ inches)<br>or<br>Approx. 364 × 291 mm (w/h)<br>($14\ ^{3}/_{8} \times 11\ ^{1}/_{2}$ inches) |
| Deflection frequency | Horizontal: 30 to 107 kHz<br>Vertical: 50 to 160 Hz<br>256 < Total Line < 2048 |
| AC input voltage/current | 100 to 240 V, 50 – 60 Hz, 2.0 – 1.0 A |
| Power consumption | Max. 160 W |
| Dimensions | 498 × 513 × 500 mm (w/h/d)<br>($19\ ^{5}/_{8} \times 20\ ^{1}/_{4} \times 19\ ^{3}/_{4}$ inches) |
| Mass | Approx. 31 kg (68 lb 5 oz) |

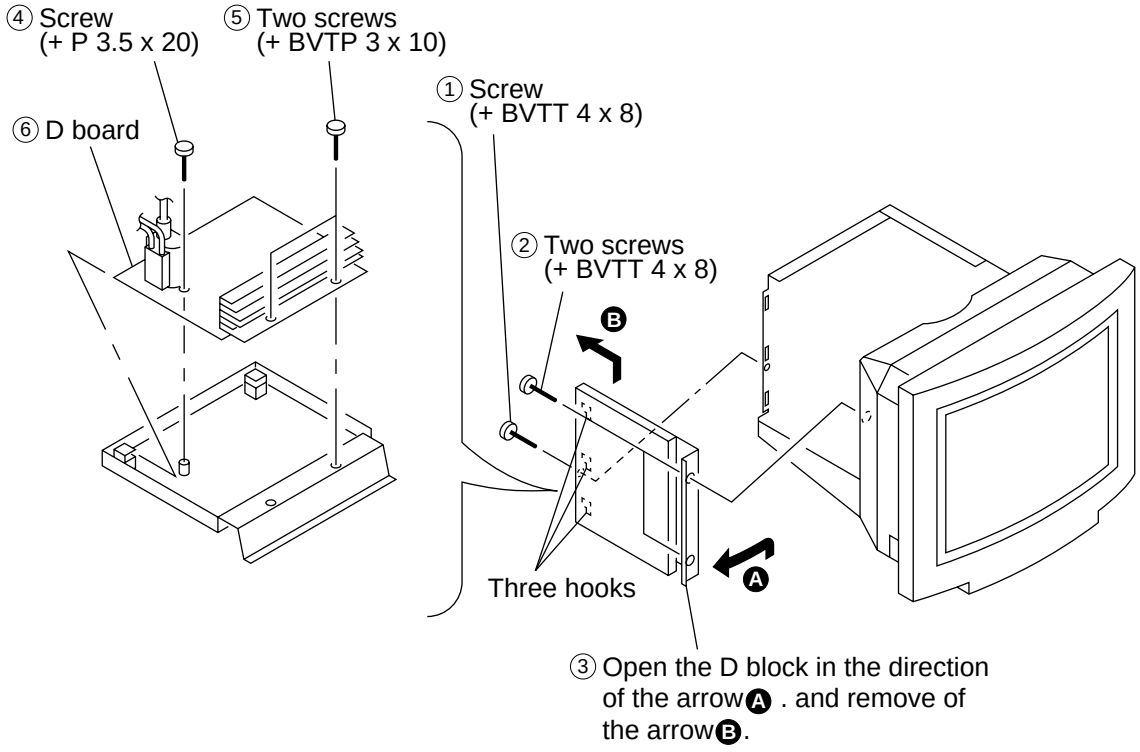
Design and specifications are subject to change without notice.

# SECTION 2
# DISASSEMBLY

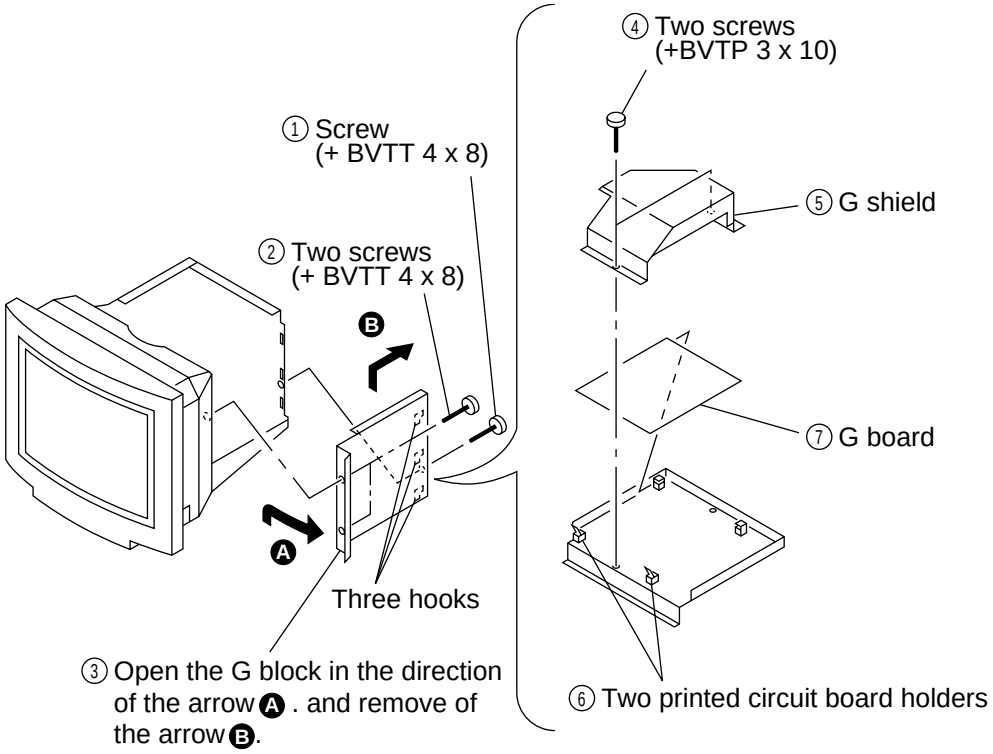
## 2-1. CABINET REMOVAL



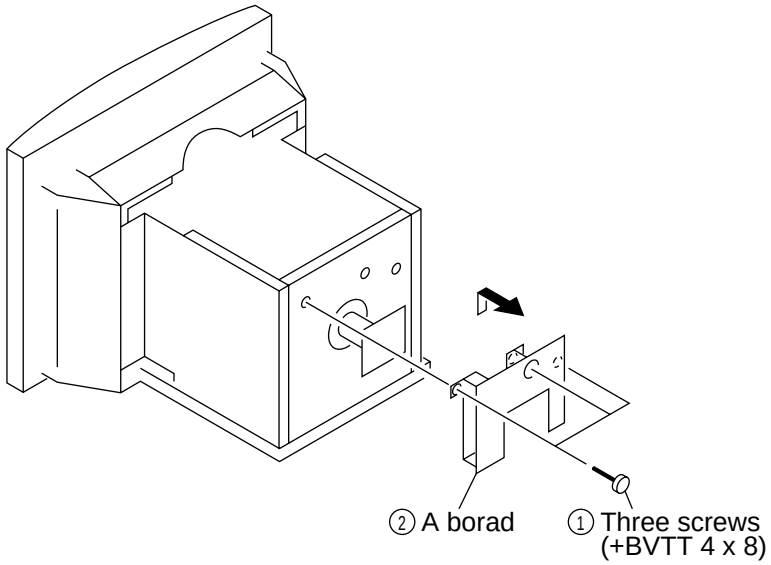

## 2-2. D BOARD REMOVAL



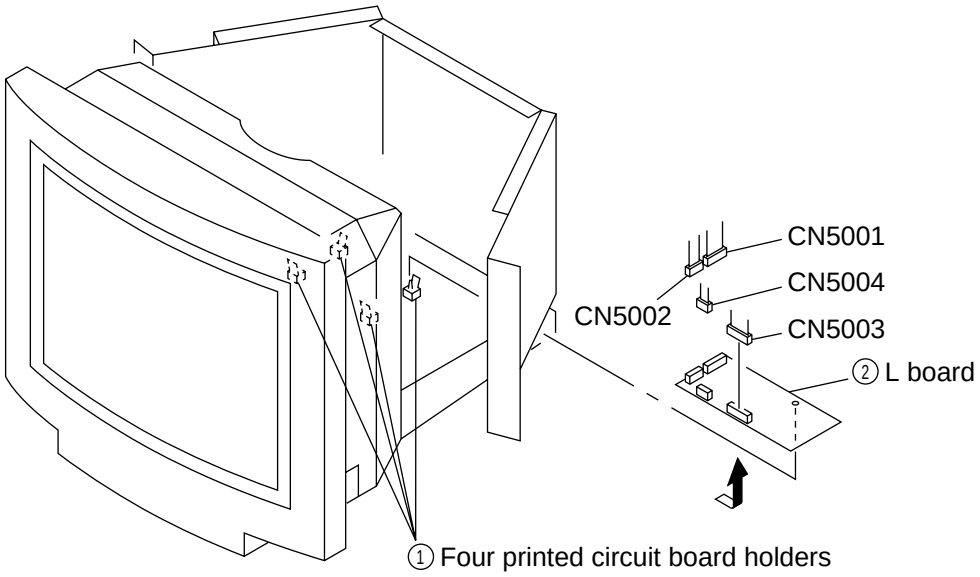
## 2-3. G BOARD REMOVAL


④ Two screws
(+BVTP 3 x 10)
① Screw
(+ BVTT 4 x 8)
⑤ G shield
② Two screws
(+ BVTT 4 x 8)
B
⑦ G board
A
Three hooks
③ Open the G block in the direction of the arrow A . and remove of the arrow B.
⑥ Two printed circuit board holders

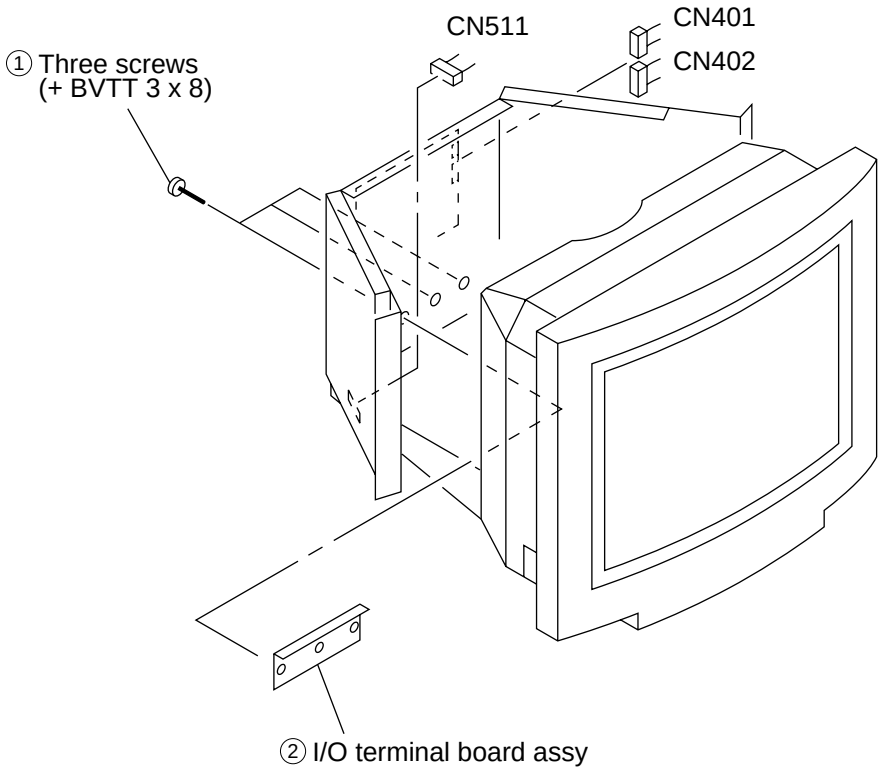
## 2-4. A BOARD REMOVAL



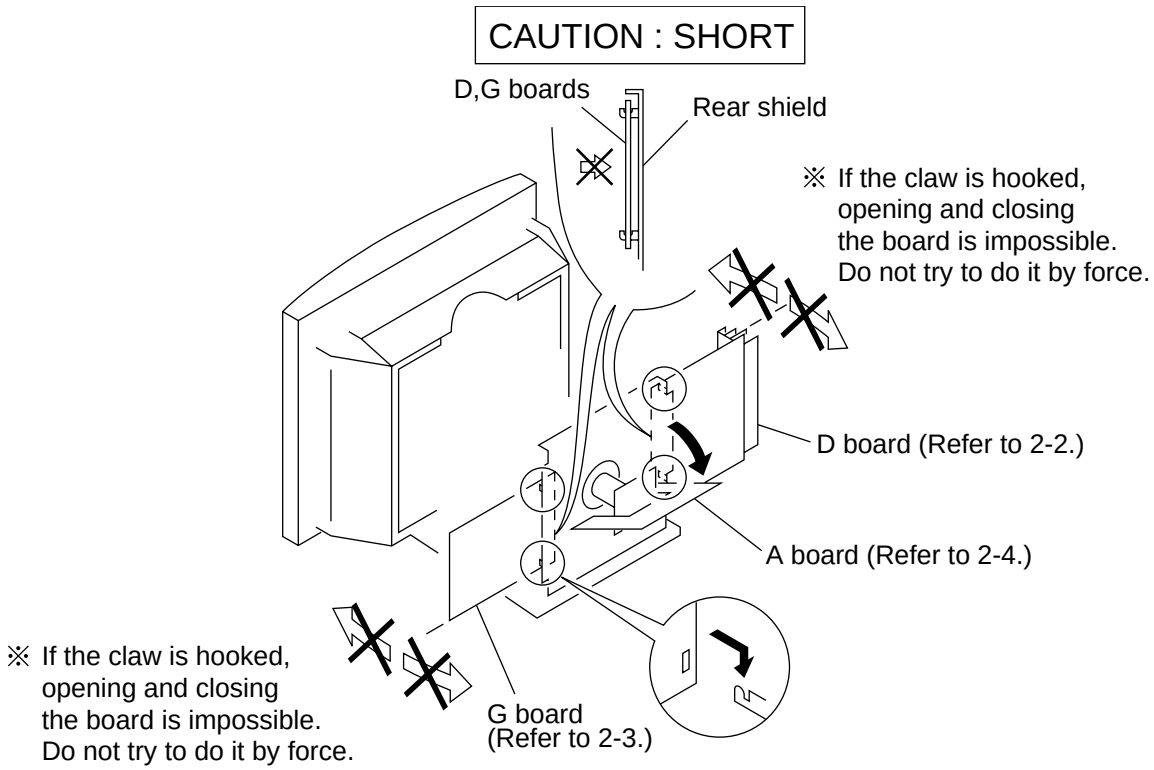
## 2-5. L BOARD REMOVAL



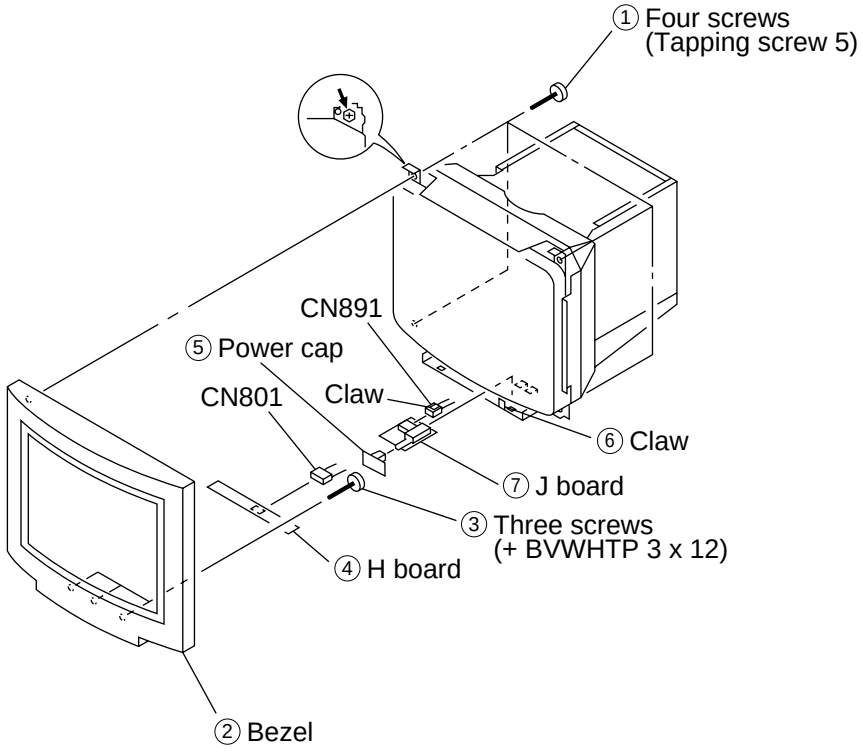

## 2-6. I/O TERMINAL BOARD ASSY REMOVAL



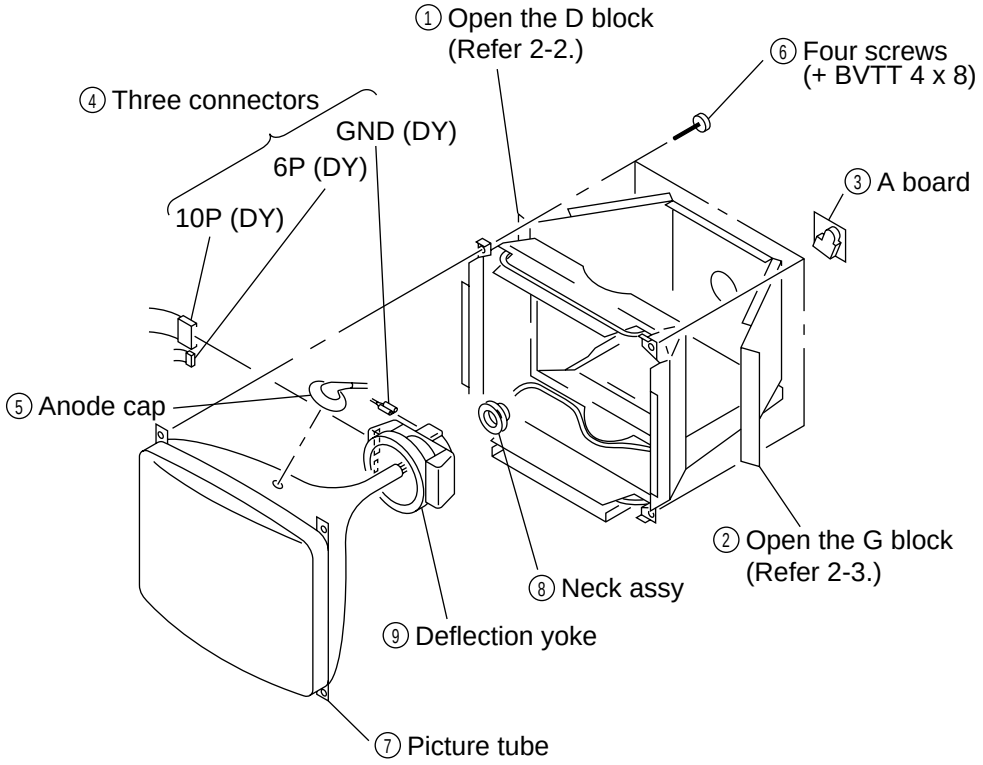
## 2-7. SERVICE POSITION


CAUTION : SHORT
D,G boards
Rear shield
※ If the claw is hooked, opening and closing the board is impossible. Do not try to do it by force.
D board (Refer to 2-2.)
A board (Refer to 2-4.)
※ If the claw is hooked, opening and closing the board is impossible. Do not try to do it by force.
G board (Refer to 2-3.)

## 2-8. H AND J BOARDS REMOVAL



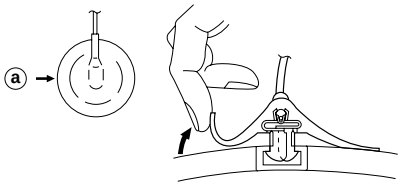
## 2-9. PICTURE TUBE REMOVAL



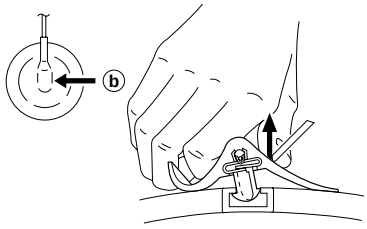

### • REMOVAL OF ANODE-CAP

NOTE: Short circuit the anode of the picture tube and the anode cap to the metal chassis, CRT shield or carbon painted on the CRT, after removing the anode.

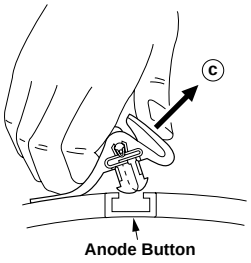
### • REMOVING PROCEDURES




① Turn up one side of the rubber cap in the direction indicated by the arrow ⓐ.



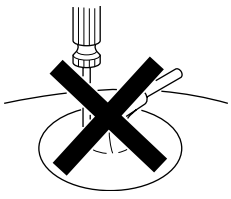

② Using a thumb pull up the rubber cap firmly in the direction indicated by the arrow ⓑ.

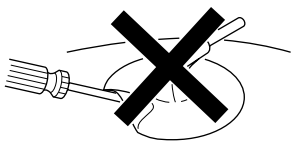



③ When one side of the rubber cap is separated from the anode button, the anode-cap can be removed by turning up the rubber cap and pulling up it in the direction of the arrow ⓒ.

### • HOW TO HANDLE AN ANODE-CAP

① Don't hurt the surface of anode-caps with shartp shaped material!
② Don't press the rubber hardly not to hurt inside of anode-caps! A material fitting called as shatter-hook terminal is built in the rubber.
③ Don't turn the foot of rubber over hardly! The shatter-hook terminal will stick out or hurt the rubber.





# SECTION 3
# SAFETY RELATED ADJUSTMENT

When replacing or repairing the shown below table, the following operational checks must be performed as a safety precaution against X-rays emissions from the unit.

| | Part Replaced (◪) |
|---|---|
| HV Regulator Circuit Check | D Board IC901, T902<br>• Mounted D board |
| HV Protector Circuit Check | D Board Q660, Q661, D916, D935, C924, R665, R667, R940, R980, T902<br>• Mounted D board<br>G Board PH680, Q680, Q683, D680, R680, R685, R686, R687, R688, R689<br>• Mounted G board |
| Beam Current Protector Circuit Check | D Board IC901, D904, D907, D908, R011, R908, R909, R921, R925, R926, R929, R930, T902<br>• Mounted D board |

### Check Condition

Input voltage : 100 ~ 240 VAC
Input signal : White Cross Hatch at 107 kHz
Beam control : BRT and CONT → Minimum
B+ voltage : 195 ~ 205 VDC

### a) HV Regulator Circuit Check

1) Confirm that the voltage of the pin ② of CN901 on D board is within the voltage range shown below.
Standard: 9.00 ± 0.065 VDC

### b) HV Protector Circuit Check

1) Confirm that the HV protector circuit works and TV Raster disappears when apply the voltage as shown below between pin ③ of CN901 on D board and GND using an external DC power supply.
Check Condition: Less than 34.10 VDC

### c) Beam Current Protector Circuit Check-1

1) Measure HV voltage and record that value.
2) Shorted between pin ① and pin ④ of CN901 on D board.
3) Connect to the Constant Current Jig (A) between pin ① of CN901 on D board and GND, confirm that the Beam Current Protector Circuit works and HV go down more than 1.25 kV from the value of (1).
Check Condition: 1.50 mA

### d) Beam Current Protector Circuit Check-2

1) Connect to the Constant Current Jig (B) between pin ① of CN901 on D board and GND, confirm that the Beam Current Protector Circuit works and TV Raster disappears.
Check Condition: 1.59 mA

### e) Voltage of 3rd winding of FBT

1) Confirm that the voltage of pin ③ of CN901 on D board is within the voltage range shown below.
Standard: more than 28.0 VDC

# SECTION 4
# ADJUSTMENTS

**Note: Hand degauss must be used on stand-by or power-off condition.**
**This model has an automatic earth magnetism correction function by using an earth magnetism sensor and a LCC coil. When using a hand degauss while monitor (LCC coil) is being operated, it sometimes gets magnetized, and the system may not work properly as a result.**

## • Landing Rough Adjustment

1. Enter the full white signal. (or the full black dots signal).
2. Adjust the contrast to the maximum.
3. Make the screen monogreen.

Note: Off the outputs from R ch and B ch of SG.

4. Reverse the DY, and adjust coarsely the purity magnet so that a green raster positions in the center of screen.
5. Adjust the tilt of DY, and fix lightly with a clamp.

Note: "TILT" shall be set at 0.

## • Landing Fine Adjustment

1. Put the set inside the Helmholtz coil. ("LCC SW" = "12")
2. Input the single green signal and set the CONT control to MAX.

Note: After the W/B adjustment with 9300K, measure an average of ΣIk when a full white signal is entered in the CONT MAX/BRT CENT status. Then make adjustment so that the specified screen can be attained after aging for 2 hours with Ik equivalent to 30% of the average value.

3. Demagnetize the metal part of the chassis with the hand degausser and coil degausser, and the CRT surface with the hand degausser.
   Input AC 230V to AC IN, turn on and off the power to perform auto degaussing. (Perform auto degaussing by setting "MON CON REG2"=152. Return to the original value after use.)
   Demagnetize the CRT surface with the hand degausser again.

Note:

(1) Hand degauss must be used on stand-by or power-off condition.
   This model has an automatic earth magnetism correction function by using an earth magnetism sensor and a LCC coil. When using a hand degauss while monitor (LCC coil) is being operated, it sometimes gets magnetized, and the system may not work properly as a result.
(2) Adjust in a non-magnetic field. BV=45uT.
(3) If adjusting in a magnetic fields, add the shift from the non-magnetic field in your estimation.

4. Attach the wobbling coil to the designated part of the CRT neck.
5. Attach the sensor of the landing adjustment unit on the CRT surface.
6. Adjust the DY position and purity, and the DY tilt, and landing of the center and 4 corners with the landing checker.
   After adjustment, set "LCC SW" to "13".
   • Write terrestrial magnetism sensor reading VX and VY to "LCC VX" and LCC VY" respectively. Adjust the landing by moving "LCC NS", "LCC LT", "LCC LB", "LCC RT" and "LCC RB". However, the register adjustment must be limited within the following range.
   "LCC NS" 128 ± 15
   "LCC LT", "LCC LB", "LCC RT", "LCC RB" 128 ± 40
   Save the service data.

<Specifications>
Adjust so that the green is within the specification given right.
4 corner adjust target : within ± 1

(μm)

| | | |
|---|---|---|
| 0 ± 3 | 0 ± 7.5 | 0 ± 3 |
| 0 ± 5 | 0 ± 5 | 0 ± 5 |
| 0 ± 3 | 0 ± 7.5 | 0 ± 3 |

The red and blue must be within the specification given right with respect to the green.

(μm)

| | | |
|---|---|---|
| ± 6 | ± 6 | ± 6 |
| ± 6 | ± 4 | ± 6 |
| ± 6 | ± 6 | ± 6 |

A difference between red and blue must be within the specification given right.

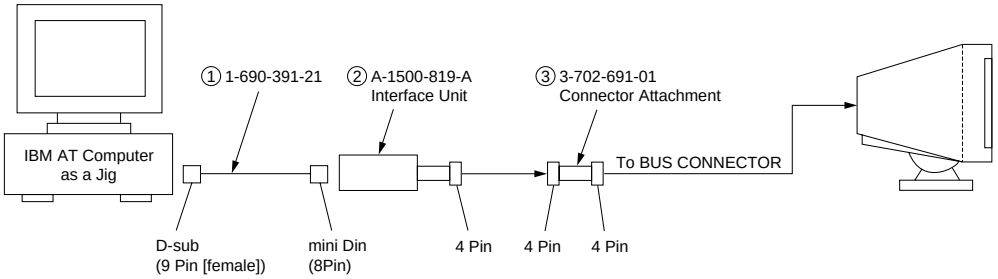
(μm)

| | | |
|---|---|---|
| 10 | 10 | 10 |
| 10 | 7 | 10 |
| 10 | 10 | 10 |

* Adjustment and measurement should be made at the points one inch inside the fluorescent screen.

7. For the up/down swing, swing the DY and insert a wedge so that the up and down pins are equal at the top and bottom. Adjust the DY TLV VR so that the horizontal trapezoid is equal at the left and right. Insert the wedge firmly so that the DY does not shake.
8. Check the landing of each corner, and if it does not satisfy the specification, adjust the landing of four corners using "LCC LT", "LCC LB", "LCC RT" and "LCC RB".
   However, the register adjustment must be limited within the following range.
   "LCC NS" 128 ± 15
   "LCC LT", "LCC LB", "LCC RT", "LCC RB" 128 ± 40
   After adjustment, save the service data.
9. Remove the sensor and wobbling coil.
10. Switch the signal to R.G.B., and check that each color is pure.
11. Check that the DY is not tilting.

Connect the communication cable of the computer to the connector located on the D board on the monitor. Run the service software and then follow the instruction.




*The parts above (① ~ ③) are necessary for DAS adjustment.

- **Convergence Rough Adjustment**

(1) Receive an image of the white crosshatch signals (white lines on black).
(2) Place the protrusions of the 6-fold poles magnet attached to the CRT neck upon each other. (Fig. 1)
(3) Make rough adjustment of the H and V direction convergence by using 4-fold poles magnet.
(4) Make a rough adjustment of the V direction convergence by using "V. STAT".

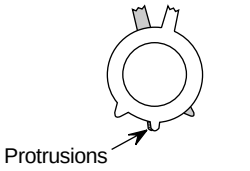



*Fig. 1*

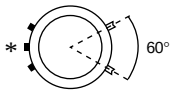



*Fig. 3*

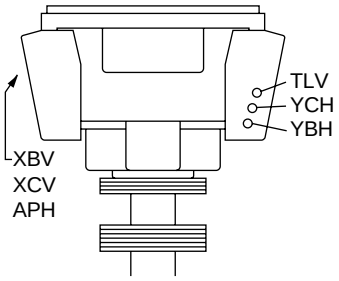
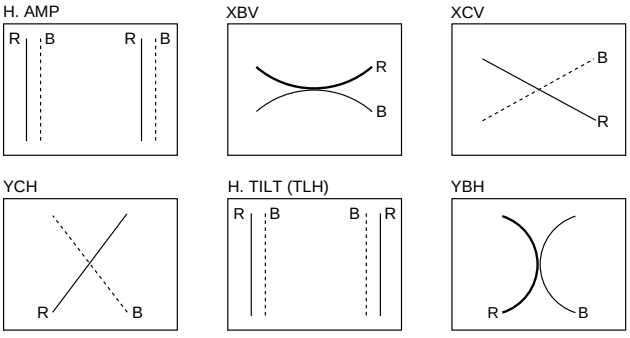
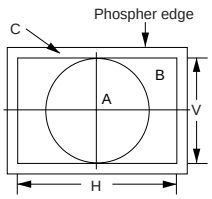



*Fig. 2*

* Set so that the protruding parts of the 2 magnet rings agree with each other.




- **Convergence Specification**

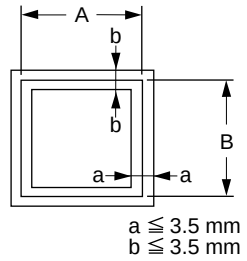



| MODE | Zone | N. Hemisphere | S. Hemisphere |
|---|---|---|---|
| fH≥ 60 kHz | A Zone | 0.24 mm | 0.24 mm |
| | B Zone | 0.24 mm | 0.28 mm |
| | C Zone | 0.32 mm | 0.32 mm |
| fH≤ 60 kHz | A Zone | 0.24 mm | 0.28 mm |
| | B Zone | 0.32 mm | 0.36 mm |
| | C Zone | 0.36 mm | 0.40 mm |

- **White Balance Adjustment Specification**

(1) 9300K
x = 0.281 ± 0.005
y = 0.311 ± 0.005
(All White)
(2) 6500K
x = 0.313 ± 0.005
y = 0.329 ± 0.005
(All White)

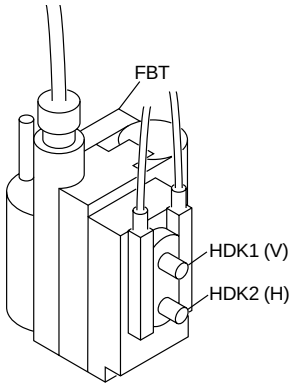
- **Vertical and Horizontal Position and Size Specification**




| MODE | 1-4, 7, 8 | 5, 6 |
|---|---|---|
| A | 388 mm | 364 mm |
| B | 291 mm | 291 mm |

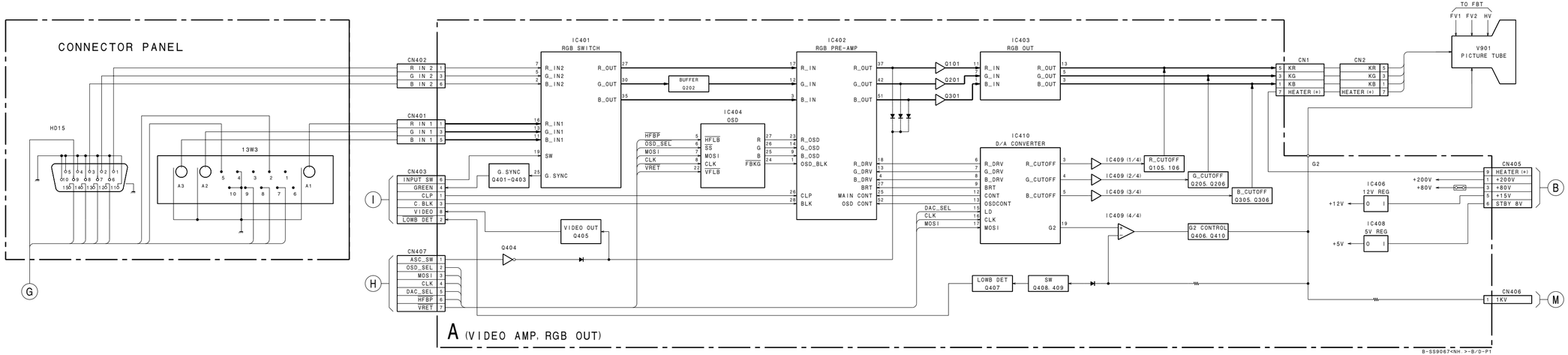
- **Focus adjustment**

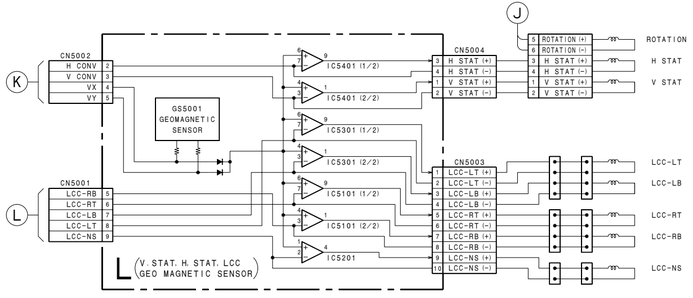
Adjust the focus volume 1 and 2 (HDK 1 and 2) for the optimum focus.

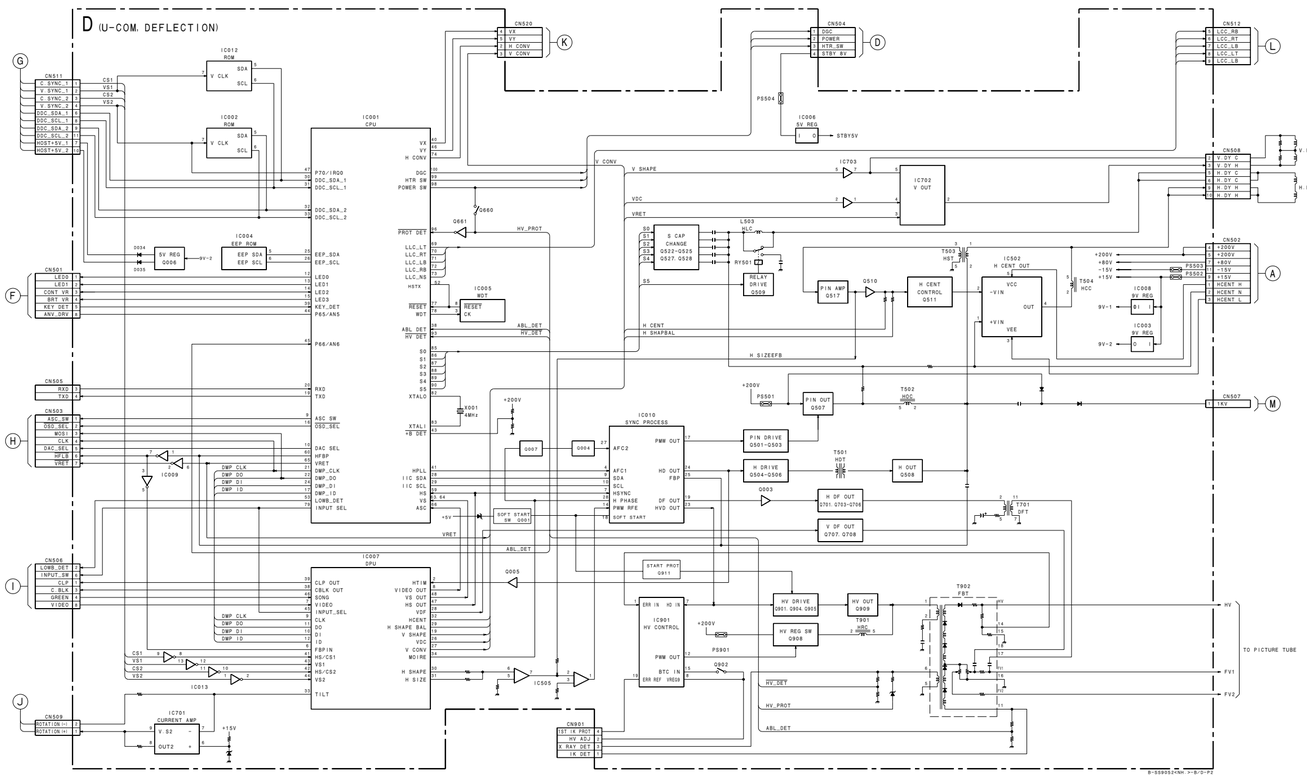


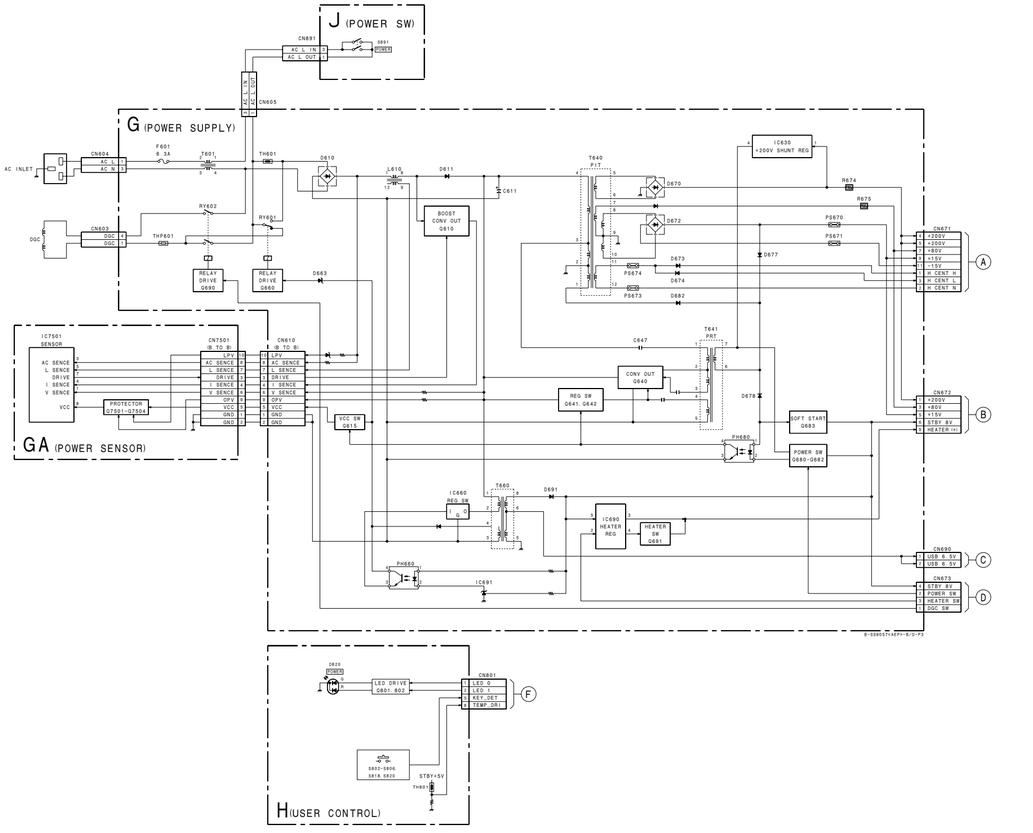
# SECTION 5
# DIAGRAMS

## 5-1. BLOCK DIAGRAMS

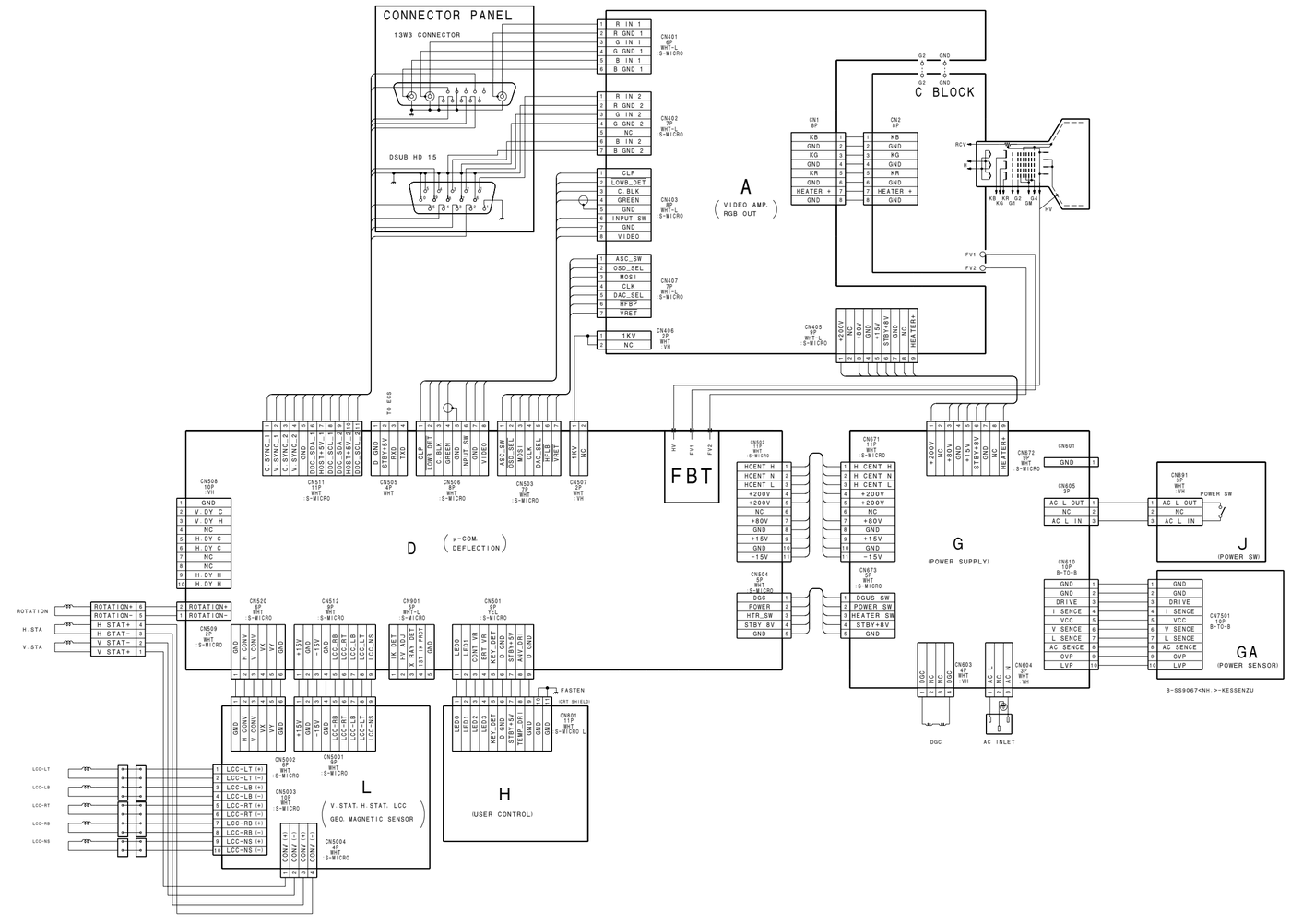



D (U-COM, DEFLECTION)
IC001 CPU
IC002 ROM
IC004 EEP ROM
IC005 MDT
IC007 DPU
IC009
IC010 SYNC PROCESS
IC012 ROM
IC013
IC501 CURRENT AMP
IC502 H CENT OUT
IC503 5V REG
IC504 HCC
IC506 5V REG
IC701 V OUT
IC703
IC7501 SENSOR
CN501
CN502
CN503
CN504
CN505
CN506
CN507
CN508
CN509
CN511
CN512
CN520
CN901
5V REG Q006
RELAY DRIVE Q509
S CAP CHANGE Q527-Q529 Q537-Q539
PIN AMP Q517
H CENT CONTROL Q511
PIN OUT Q507
PIN DRIVE Q501-Q503
H DRIVE Q504-Q506
H OUT Q508
H DF OUT Q701-Q703
V DF OUT Q707-Q708
START PROT Q911
HV DRIVE Q901-Q904-Q913
HV OUT Q909
HV REG SW Q908
PROTECTOR Q7501-Q7504
TO PICTURE TUBE
HV
FV1
FV2
V.DY
H.DY
STBY5V
HV_PROT
ABL_DET
H SIZE/EW
V SHAPE
H SHAPE/BAL
H CENT
V CONV
VCC
VREF
+200V
+15V
-15V
+80V
9V-1
9V-2
SOFT START SW Q001
RELAY DRIVE Q509
RELAY DRIVE Q690
RELAY DRIVE Q660
B-5599S2<CNH >-B/D-P2


J (POWER SW)
G (POWER SUPPLY)
GA (POWER SENSOR)
H (USER CONTROL)
CN891
CN605
CN604
CN603
CN7501
CN610
CN801
CN671
CN672
CN673
CN679
CN680
CN690
IC7501 SENSOR
IC630 +200V SHUNT REG
IC640 REG SW
IC690 HEATER REG
BOOST CONV OUT Q610
CONV OUT Q640
REG SW Q641, Q642
VCC SW Q615
SOFT START Q683
POWER SW Q680-Q682
HEATER SW Q691
LED DRIVE Q801, 802
PROTECTOR Q7501-Q7504
AC INLET
AC L IN
AC L OUT
AC SENCE
L SENCE
I SENCE
V SENCE
OPV
VCC
GND
LED 0
LED 1
KEY_DET
TEMP_DRI
STBY 5V
USB 4.5V
HEATER SW
DOC SW
B-5599S7<AEPY-B/D-P3

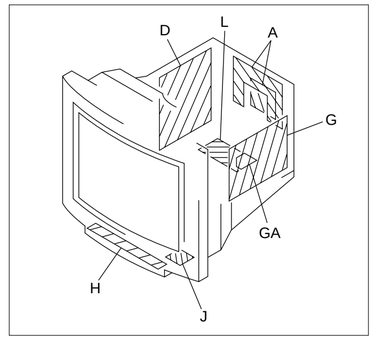
## 5-2. FRAME SCHEMATIC DIAGRAM








## 5-3. CIRCUIT BOARDS LOCATION




## 5-4. SCHEMATIC DIAGRAMS AND PRINTED WIRING BOARDS

**Note:**

- All capacitors are in μF unless otherwise noted. (pF: μμF) Capacitors without voltage indication are all 50 V.
- Indication of resistance, which does not have one for rating electrical power, is as follows.

  Pitch: 5 mm
  Rating electrical power 1/4 W (CHIP : 1/10 W)

- All resistors are in ohms.
- : nonflammable resistor.
- : fusible resistor.
- : internal component.
- : panel designation, and adjustment for repair.
- All variable and adjustable resistors have characteristic curve B, unless otherwise noted.
- : earth-ground.
- : earth-chassis.
- The components identified by ⋈ in this basic schematic diagram have been carefully factory-selected for each set in order to satisfy regulations regarding X-ray radiation.
  Should replacement be required, replace only with the value originally used.
- When replacing components identified by ◪, make the necessary adjustments indicated. (See page 3-1)
- When replacing the part in below table, be sure to perform the related adjustment.

| | Part replaced ( ◪ ) | |
|---|---|---|
| HV Regulator Circuit Check | D Board | IC901, T902<br>• Mounted D board |
| HV Protector Circuit Check | D Board | Q660, Q661, D916, D935, C924, R665, R667, R940, R980, T902<br>• Mounted D board |
| | G Board | PH680, Q680, Q683, D680, R680, R685, R686, R687, R688, R689<br>• Mounted G board |
| Beam Current Protector Circuit Check | D Board | IC901, D904, D907, D908, R011, R908, R909, R921, R925, R926, R929, R930, T902<br>• Mounted D board |

**Note: The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.**

**Note: Les composants identifiés per un tramé et une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.**

- All voltages are in V.
- Readings are taken with a 10 M digital multimeter.
- Readings are taken with a color-bar signal input.
- Voltage variations may be noted due to normal production tolerances.
- ✻ : Can not be measured.
- Circled numbers are waveform references.
- ——— : B + bus.
- ▬ ▬ ▬ : B – bus.

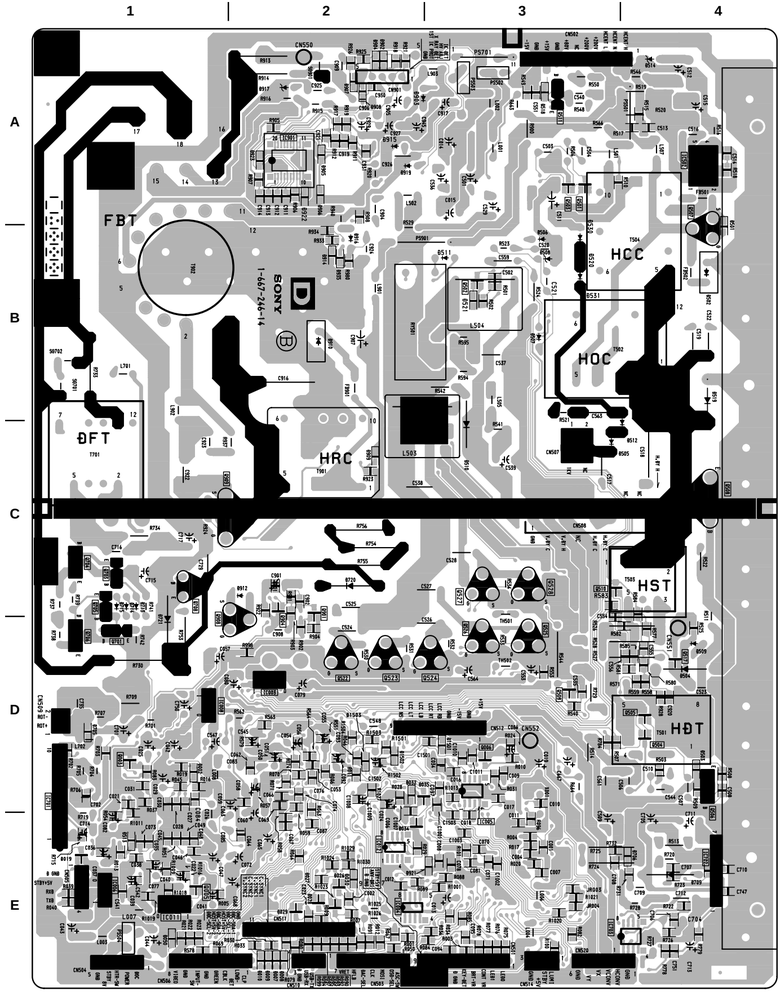
### Terminal name of semiconductors in silk screen printed circuit (✻)

| | Device | Printed symbol | Terminal name | Circuit |
|---|---|---|---|---|
| ① | Transistor | T | Collector / Base / Emitter | |
| ② | Transistor | — | Collector / Base / Emitter | |
| ③ | Diode | ⊓ | Cathode / Anode | |
| ④ | Diode | T | Cathode / Anode (NC) | |
| ⑤ | Diode | — | Cathode / Anode (NC) | |
| ⑥ | Diode | T | Common / Anode / Cathode | |
| ⑦ | Diode | — | Common / Anode Cathode | |
| ⑧ | Diode | T | Common / Anode / Anode | |
| ⑨ | Diode | — | Common / Anode Anode | |
| ⑩ | Diode | T | Common / Cathode / Cathode | |
| ⑪ | Diode | — | Common / Cathode Cathode | |
| ⑫ | Diode | \| | Anode Cathode / Anode Anode / Cathode Anode | |
| ⑬ | Transistor (FET) | \| | Drain / Source / Gate | |
| ⑭ | Transistor (FET) | ⊢ | Drain / Source / Gate | |
| ⑮ | Transistor (FET) | \| | □ Source / □ Drain / □ Gate | |
| ⑯ | Transistor | \| | □ Emitter / □ Collector / □ Base | |
| — | Discrete semiconductor | | | |

(Chip semiconductors that are not actually used are included.)

Ver.1.5

— D BOARD (Conductor Side) —




D µ-COM, DEFLECTION

• D BOARD SEMICONDUCTOR LOCATION

IC

| | (Conductor Side) | (Component Side) |
|---|---|---|
| IC001 | | E–2 |
| IC002 | | E–3 |
| IC003 | D–2 | D–3 |
| IC004 | E–2 | |
| IC005 | D–3 | |
| IC006 | E–1 | E–4 |
| IC007 | | D–3 |
| IC008 | D–1 | D–3 |
| IC009 | | D–2 |
| IC010 | | E–4 |
| IC011 | E–1 | E–4 |
| IC012 | E–2 | |
| IC013 | | E–3 |
| IC502 | A–4 | A–1 |
| IC505 | | D–3 |
| IC701 | D–1 | D–4 |
| IC702 | E–4 | E–1 |
| IC703 | E–3 | |
| IC901 | A–2 | |

TRANSISTOR

| | (Conductor Side) | (Component Side) | ✻ |
|---|---|---|---|
| Q001 | | D–4 | ② |
| Q003 | D–1 | | ③ |
| Q004 | | D–4 | ② |
| Q005 | E–1 | | ① |
| Q006 | D–3 | | ① |
| Q007 | | D–4 | ② |
| Q501 | A–3 | | ① |
| Q502 | B–3 | | ① |
| Q503 | A–3 | | ① |
| Q504 | D–4 | | ① |
| Q505 | D–4 | | ① |
| Q506 | D–4 | D–1 | – |
| Q507 | A–4 | A–1 | – |
| Q508 | C–4 | C–1 | – |
| Q509 | D–3 | | ① |
| Q510 | C–3 | | ① |
| Q511 | A–3 | A–2 | – |
| Q512 | | D–2 | ② |
| Q517 | D–4 | | ① |
| Q522 | D–2 | D–3 | – |
| Q523 | D–2 | D–2 | – |
| Q524 | D–3 | D–2 | – |
| Q525 | D–3 | D–2 | – |
| Q526 | D–3 | D–2 | – |
| Q527 | C–3 | C–2 | – |
| Q528 | C–3 | C–2 | – |
| Q660 | | D–2 | ② |
| Q661 | | D–2 | ② |
| Q701 | D–1 | D–4 | – |
| Q703 | C–1 | C–4 | – |
| Q704 | C–1 | C–4 | – |
| Q705 | C–1 | C–4 | – |
| Q706 | D–1 | D–4 | – |
| Q707 | | D–3 | ② |
| Q708 | C–1 | C–3 | – |
| Q901 | C–2 | | ① |
| Q902 | | A–3 | ② |
| Q904 | C–2 | | ① |
| Q905 | | C–3 | ② |
| Q908 | D–2 | D–3 | – |
| Q909 | C–2 | C–3 | – |
| Q911 | | D–3 | ② |

DIODE

| | (Conductor Side) | (Component Side) | ✻ |
|---|---|---|---|
| D004 | | E–2 | ⑦ |
| D007 | E–2 | | ③ |
| D008 | E–2 | | ③ |
| D009 | E–2 | | ③ |
| D010 | E–2 | | ③ |
| D012 | | E–2 | ⑦ |
| D013 | | E–2 | ⑦ |
| D014 | | E–2 | ⑦ |
| D015 | | E–2 | ⑦ |
| D016 | | E–2 | ⑦ |
| D019 | E–1 | | ⑥ |
| D020 | | E–4 | ⑦ |
| D025 | | D–4 | ③ |
| D026 | E–2 | | ⑥ |
| D027 | E–2 | | ⑥ |
| D028 | E–2 | | ⑥ |
| D029 | E–2 | | ⑥ |
| D032 | D–2 | | ③ |
| D033 | | E–2 | ③ |
| D034 | E–2 | | ⑥ |
| D035 | D–3 | | ⑥ |
| D050 | E–1 | | ⑤ |
| D501 | B–4 | | ③ |
| D502 | B–4 | B–1 | – |
| D503 | D–4 | | ③ |
| D504 | D–4 | D–1 | – |
| D505 | C–3 | C–1 | – |
| D506 | B–3 | B–2 | – |
| D507 | B–3 | B–2 | – |
| D508 | B–3 | B–2 | – |
| D509 | D–4 | D–1 | – |
| D510 | C–3 | C–2 | – |
| D511 | B–3 | B–2 | – |
| D512 | C–4 | C–1 | – |
| D513 | E–1 | | ③ |
| D514 | A–4 | A–1 | – |
| D516 | | D–2 | ③ |
| D517 | | D–2 | ③ |
| D518 | A–3 | | ③ |
| D519 | B–4 | B–1 | – |
| D521 | B–3 | | ③ |
| D530 | B–3 | B–2 | – |
| D531 | B–3 | B–2 | – |
| D660 | | D–2 | ③ |
| D701 | | D–4 | ③ |
| D704 | | D–5 | ③ |
| D705 | D–1 | | ③ |
| D706 | E–4 | | ③ |
| D709 | E–4 | E–1 | – |
| D713 | C–1 | C–4 | – |
| D714 | C–1 | C–4 | – |
| D715 | C–1 | C–4 | – |
| D718 | | D–4 | ③ |
| D720 | C–2 | C–3 | – |
| D721 | D–1 | D–4 | – |
| D901 | | C–3 | – |
| D902 | A–2 | | ③ |
| D903 | A–2 | A–2 | – |
| D904 | A–2 | | ③ |
| D905 | A–2 | | ③ |
| D906 | A–2 | | ③ |
| D907 | A–2 | | ③ |
| D908 | A–2 | | ③ |
| D909 | C–2 | | ③ |
| D910 | B–2 | B–3 | – |
| D911 | | C–3 | ③ |
| D913 | | A–3 | ③ |
| D915 | A–2 | A–2 | – |
| D916 | B–2 | B–3 | – |
| D917 | A–2 | A–3 | – |
| D919 | A–2 | A–2 | – |
| D921 | E–3 | | ③ |
| D922 | A–2 | | ③ |
| D923 | A–2 | | ③ |
| D924 | | E–2 | ③ |
| D935 | B–2 | | ③ |
| D1501 | D–3 | | ③ |
| D1502 | D–2 | | ③ |
| D1503 | D–2 | | ③ |

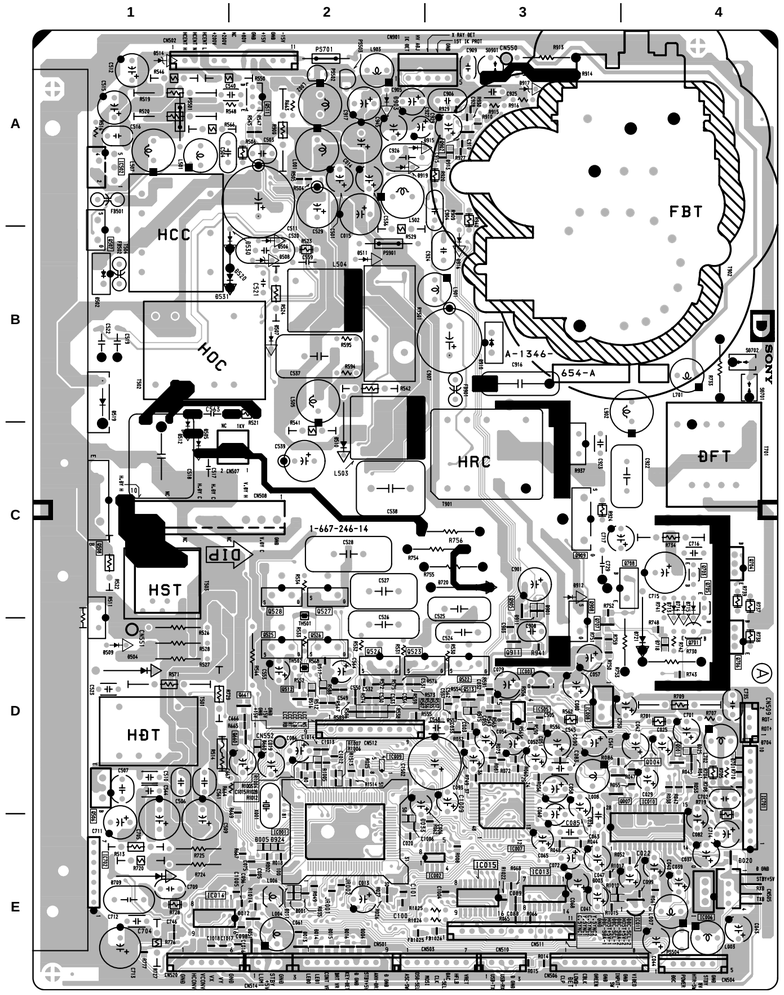
CRYSTAL

| | (Conductor Side) | (Component Side) |
|---|---|---|
| X001 | D–3 | D–2 |

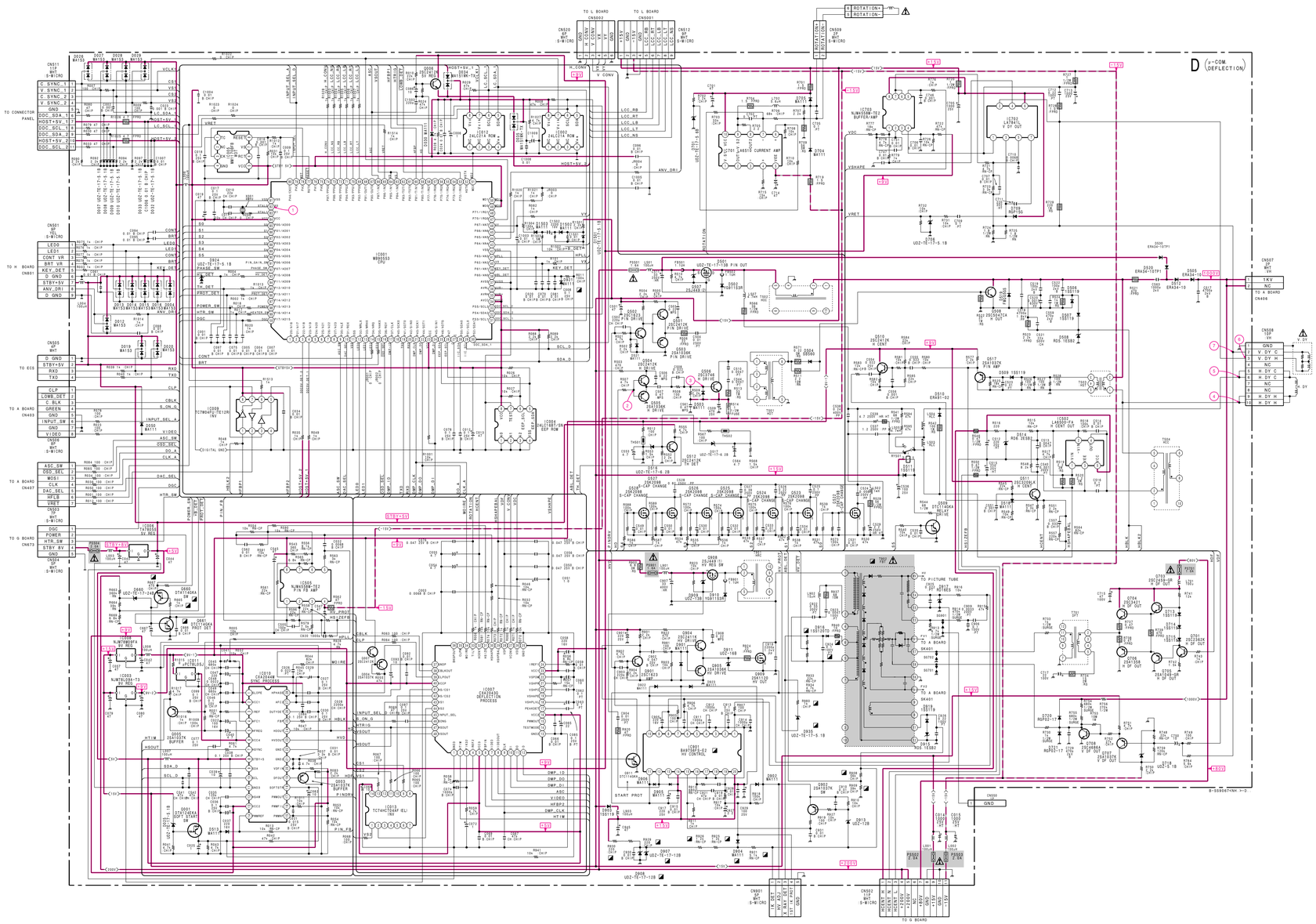
✻: Refer to Terminal name of semiconductors in silk screen printed circuit (see page 5-9)

**NOTE:**
The circuit indicated as left contains high voltage of over 600 Vp-p. Care must be paid to prevent an electric shock in inspection or repairing.

— D BOARD (Component Side) —



## (1) Schematic Diagram of D Board



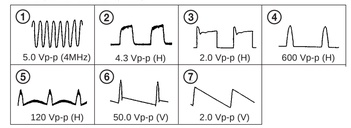
5-13

5-14

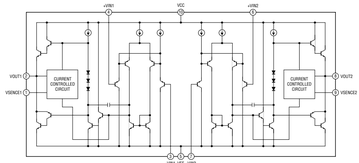
5-15

5-16

### • D BOARD WAVEFORMS

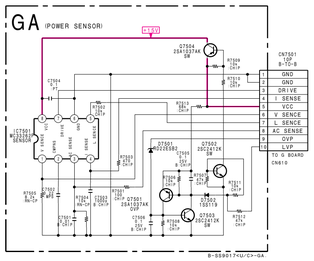



### • D BOARD IC701 LA6510



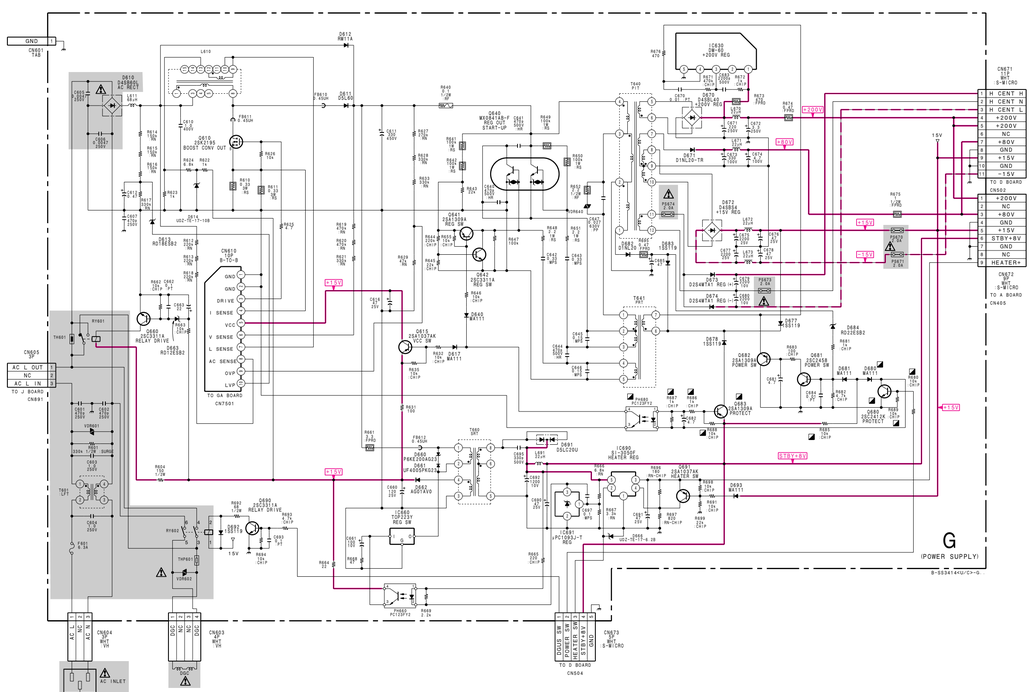

### • D BOARD VOLTAGE LIST

| Ref. | Pin No. | Voltage [V] | Ref. | Pin No. | Voltage [V] |
|---|---|---|---|---|---|
| IC002 | 5 | 1.1 | | 11 | 0 |
| | 6 | 4.2 | | 12 | 11.2 |
| | 7 | 0 | | 15 | 0 |
| | | | | 16 | 8.4 |
| IC004 | 5 | 4.8 | | 19 | 9.2 |
| | 6 | 4.8 | | | |
| IC005 | 1 | 0.4 | Q003 | B | 5.1 |
| | 3 | 0 | | C | 0 |
| | 7 | 1.5 | | E | 5.7 |
| | 8 | 4.8 | Q005 | B | 2.5 |
| IC009 | 1 | −0.1 | | C | 0 |
| | 2 | 4.7 | | E | 3.1 |
| | 3 | 4.5 | Q501 | B | 11.2 |
| | 5 | 0.3 | | C | 13.8 |
| | 6 | 0.3 | | E | 10.8 |
| | 7 | 4.5 | Q502 | B | 0.2 |
| IC010 | 1 | 4.0 | | C | 11.2 |
| | 3 | 3.0 | Q503 | B | 11.2 |
| | 4 | 2.8 | | E | 10.9 |
| | 5 | 2.3 | Q504 | B | 2.5 |
| | 6 | 2.6 | | C | 12.0 |
| | 7 | 0.6 | | E | 2.5 |
| | 9 | 4.8 | Q505 | B | 2.5 |
| | 10 | 4.8 | | E | 2.4 |
| | 12 | 5.4 | Q506 | B | −14.0 |
| | 14 | 4.5 | | C | −0.2 |
| | 15 | 4.5 | | E | −14.0 |
| | 16 | 5.4 | Q507 | G | 197.4 |
| | 17 | 1.0 | | D | 41.8 |
| | 18 | 0 | Q508 | B | −1.4 |
| | 19 | 5.1 | | C | 41.0 |
| | 20 | 3.7 | Q509 | B | 0 |
| | 23 | 0.8 | | C | 14.1 |
| | 24 | 2.5 | Q510 | B | 4.5 |
| | 25 | −0.1 | | E | 3.9 |
| | 26 | 4.0 | Q511 | B | 3.2 |
| | 27 | 4.0 | | C | 33.5 |
| | 28 | 4.4 | | E | 2.6 |
| IC012 | 5 | 0.6 | Q517 | B | 4.6 |
| | 6 | 3.9 | | E | 5.1 |
| | 7 | 4.1 | Q522 | G | 0 |
| IC013 | 1 | 0 | | D | 15.2 |
| | 2 | 4.9 | Q523 | G | 4.7 |
| | 8 | 0.6 | | D | 0 |
| | 9 | 3.6 | Q524 | G | 4.7 |
| | 10 | 4.9 | | D | 0 |
| | 11 | 0 | Q525 | G | 4.7 |
| | 13 | 5.7 | | D | 0 |
| IC014 | 1 | 3.5 | Q527 | G | 4.7 |
| | 3 | 3.5 | | D | 0 |
| | 5 | 2.7 | Q528 | G | 4.7 |
| | 7 | 0 | | D | 0 |
| | 10 | 0.1 | Q660 | B | 4.2 |
| | 12 | 4.9 | | C | 0 |
| | 13 | 4.9 | | E | 4.2 |
| | 14 | 3.2 | Q661 | B | 0 |
| | 15 | 3.9 | | C | 4.2 |
| IC015 | 1 | 0.5 | Q701 | B | 5.7 |
| | 2 | 4.2 | | C | 36.0 |
| | 3 | 0.5 | | E | 5.1 |
| | 4 | 0.5 | Q703 | B | 37.9 |
| | 5 | 0 | | E | 37.4 |
| | 6 | 0 | Q704 | B | 37.4 |
| | 8 | 0 | | E | 37.0 |
| | 9 | 0 | Q705 | B | 36.0 |
| | 13 | 0 | | E | 36.6 |
| IC502 | 1 | 41.4 | Q706 | B | 36.6 |
| | 2 | 41.4 | | E | 37.0 |
| | 3 | 33.7 | Q707 | B | −0.6 |
| | 4 | 42.3 | | C | −5.0 |
| | 5 | 48.3 | | E | 0 |
| IC505 | 1 | 4.5 | Q708 | B | 0.6 |
| | 2 | 0 | | C | 477.0 |
| | 3 | 0 | Q901 | B | 0.1 |
| | 5 | 0 | | C | 9.9 |
| | 6 | 0 | Q902 | B | 9.0 |
| | 7 | −10.0 | | C | 0 |
| IC701 | 1 | 14.2 | | E | 9.0 |
| | 2 | 14.2 | Q904 | B | 8.6 |
| | 3 | 0 | | C | 13.0 |
| | 4 | 3.6 | | E | 8.4 |
| | 6 | 3.0 | Q905 | B | 8.6 |
| | 7 | 3.0 | | E | 8.4 |
| | 8 | −0.7 | Q908 | G | 196.6 |
| | 9 | −0.7 | | D | 40.1 |
| IC702 | 2 | 0.4 | Q909 | G | 8.4 |
| | 3 | 13.5 | | D | 40.4 |
| | 4 | 1.2 | | | |
| | 5 | 1.2 | | | |
| | 7 | −13.0 | | | |
| IC703 | 1 | 1.2 | | | |
| | 2 | 1.6 | | | |
| | 3 | 1.6 | | | |
| | 5 | 2.8 | | | |
| | 6 | 2.8 | | | |
| | 7 | 2.8 | | | |
| IC901 | 1 | 9.3 | | | |
| | 2 | 5.6 | | | |
| | 4 | 5.0 | | | |
| | 6 | 1.1 | | | |
| | 7 | 0.9 | | | |
| | 8 | 9.3 | | | |
| | 10 | 0 | | | |



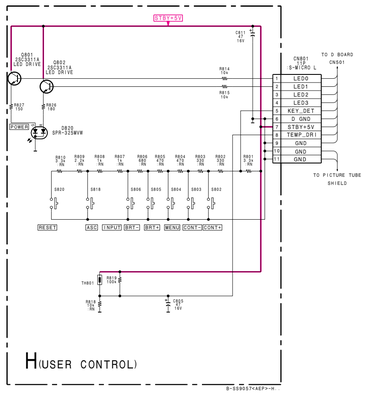

• GA BOARD
VOLTAGE LIST

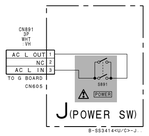
| Ref. | Pin No. | Voltage [V] |
|---|---|---|
| IC7501 | 1 | 2.6 |
| | 2 | 2.5 |
| | 3 | 1.7 |
| | 4 | 0.2 |
| | 5 | 0 |
| | 7 | 8.6 |
| Q7501 | B | 14.0 |
| | C | 0 |
| | E | 14.0 |
| Q7502 | B | 0.7 |
| | C | 0.1 |
| Q7503 | B | 0 |
| | C | 14.0 |
| Q7504 | B | 13.4 |



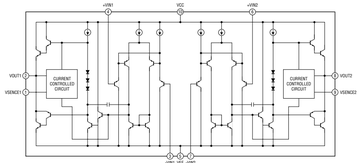

• G BOARD
VOLTAGE LIST

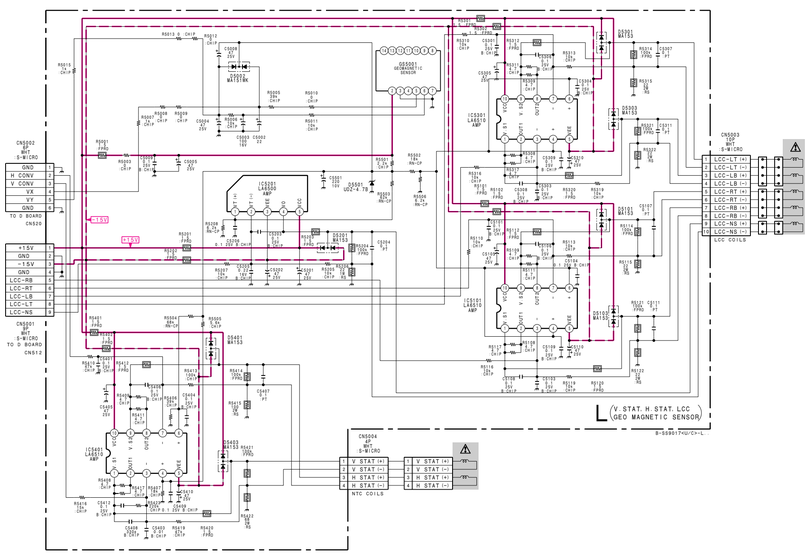
| Ref. | Pin No. | Voltage [V] |
|---|---|---|
| IC630 | 3 | 2.5 |
| | 4 | 11.6 |
| IC660 | IN | 6.1 |
| | OUT | 410.0 |
| IC690 | 2 | 5.0 |
| | 3 | 6.7 |
| | 4 | 5.3 |
| PH660 | 1 | 4.5 |
| | 2 | 3.3 |
| | 3 | 6.1 |
| | 4 | 16.7 |
| PH680 | 1 | 1.3 |
| | 2 | 0.1 |
| | 3 | 0 |
| | 4 | 0.1 |
| Q610 | G | 8.7 |
| | D | 102.4 |
| | S | 0.2 |
| Q615 | B | 13.6 |
| | C | 14.2 |
| | E | 14.3 |
| Q640 | B1 | –2.0 |
| | C1 | 199.2 |
| | B2 | 196.8 |
| | C2 | 408.0 |
| | E2 | 199.2 |
| Q641 | B | 1.1 |
| | C | –2.0 |
| | E | 2.0 |
| Q642 | B | –1.8 |
| | C | –2.0 |
| Q660 | B | 0.9 |
| | C | 0.3 |
| Q680 | B | 0.8 |
| | C | 0 |
| Q681 | B | 0.3 |
| | C | 11.7 |
| Q682 | B | 11.7 |
| | E | 11.7 |
| Q683 | B | 7.5 |
| | C | 8.3 |
| Q690 | B | 0 |
| | C | 15.0 |
| Q691 | B | 8.6 |
| | C | 5.3 |
| | E | 6.7 |




• L BOARD IC5101, 5301, 5401 LA6510



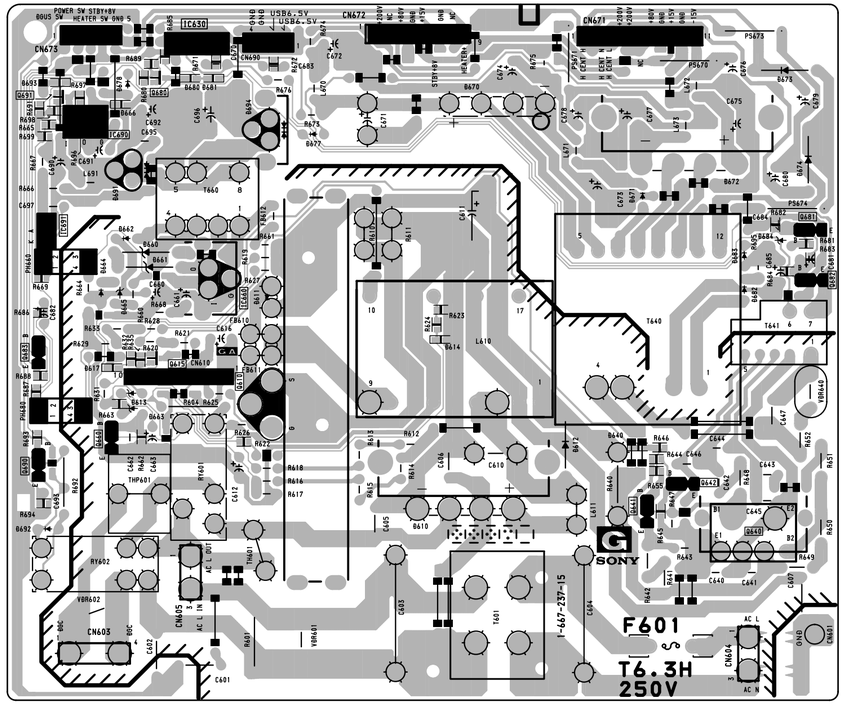

• L BOARD
VOLTAGE LIST

| Ref. | Pin No. | Voltage [V] |
|---|---|---|
| GS5001 | 5 | 2.8 |
| | 6 | 2.8 |
| IC5101 | 1 | 1.0 |
| | 2 | 1.0 |
| | 3 | 1.2 |
| | 4 | 1.2 |
| | 6 | 1.2 |
| | 7 | 1.2 |
| | 8 | –0.2 |
| | 9 | –0.2 |
| IC5201 | 1 | 1.2 |
| | 2 | 1.2 |
| | 4 | 1.1 |
| IC5301 | 1 | –0.2 |
| | 2 | –0.2 |
| | 3 | 1.2 |
| | 4 | 1.2 |
| | 6 | 1.2 |
| | 7 | 1.2 |
| | 8 | 0.4 |
| | 9 | 0.4 |
| IC5401 | 1 | 0.6 |
| | 2 | 0.6 |
| | 3 | 3.4 |
| | 4 | 3.4 |
| | 6 | 1.8 |
| | 7 | 1.8 |
| | 8 | 0.4 |
| | 9 | 0.4 |

Schematic diagram
← D board

Schematic diagrams
G GA H
J L boards →

## — G BOARD —

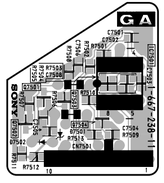



### G BOARD
**Terminal name of semiconductors in silk screen printed circuit (∗)**

| Ref. | ∗ |
|---|---|
| Q615, Q680, Q691 | ① |
| D614, D617, D640, D680, D681, D693 | ③ |

∗: Refer to Terminal name of semiconductors in silk screen printed circuit (see page 5-9)

## — GA BOARD —

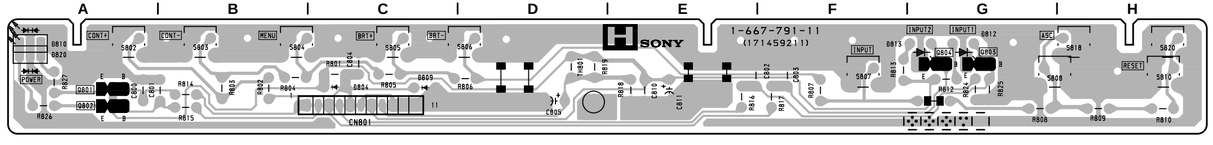



### GA BOARD
**Terminal name of semiconductors in silk screen printed circuit (∗)**

| Ref. | ∗ |
|---|---|
| Q7501–Q7504 | ① |

∗: Refer to Terminal name of semiconductors in silk screen printed circuit (see page 5-9)

## — H BOARD —

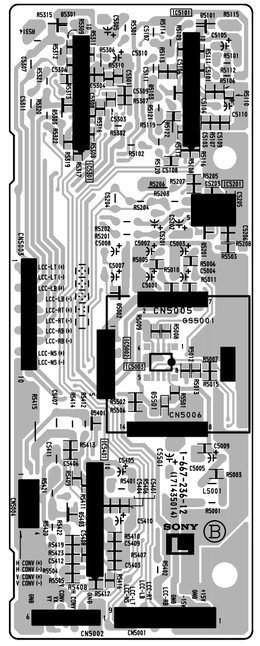




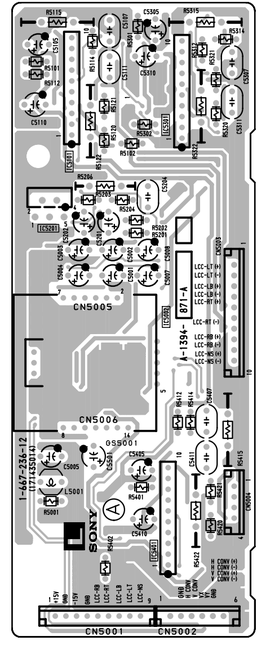





## — L BOARD (Conductor Side) —




## — L BOARD (Component Side) —



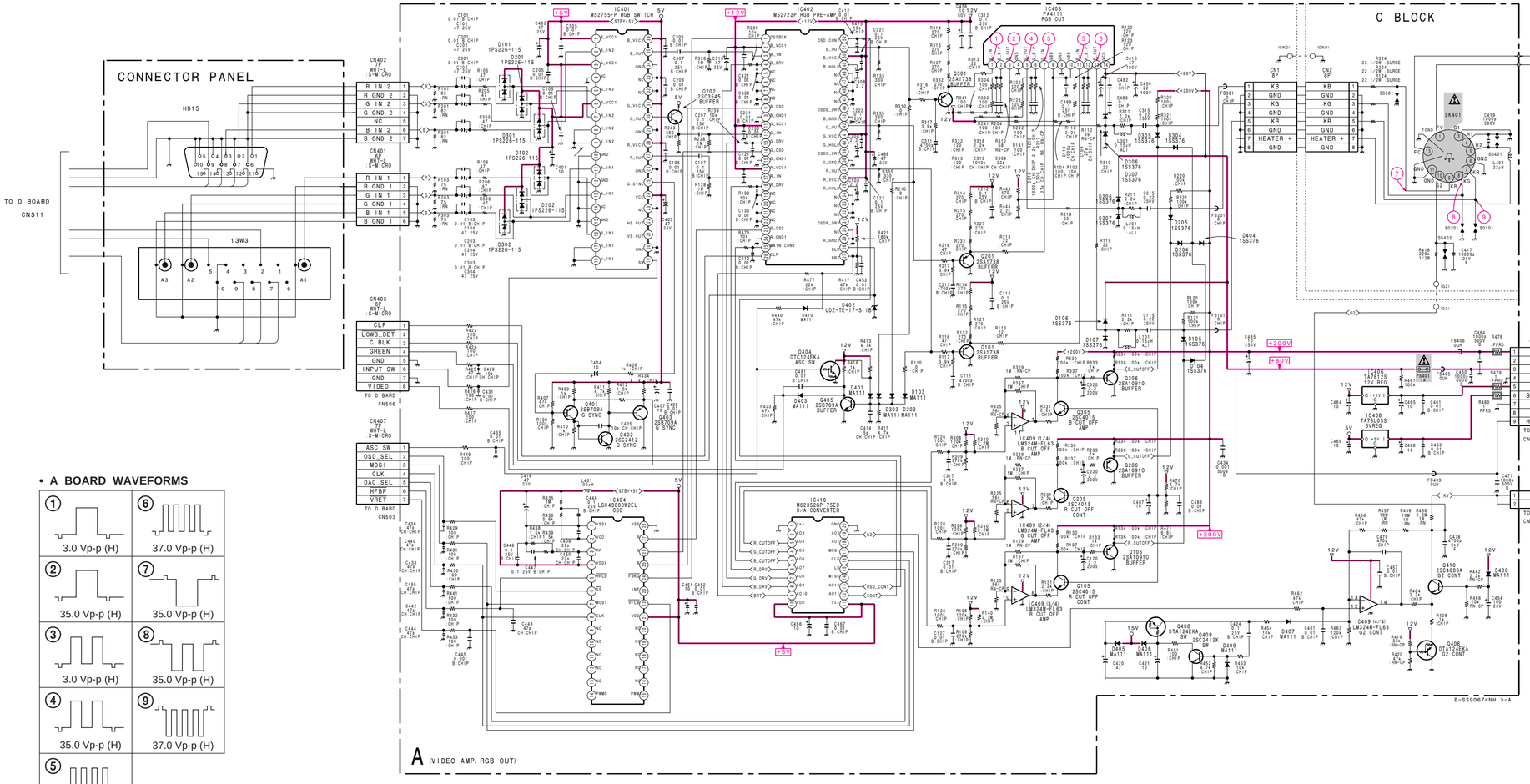

### L BOARD
**Terminal name of semiconductors in silk screen printed circuit (∗)**

| Ref. | ∗ |
|---|---|
| D5501 | ③ |
| D5101, D5103, D5201, D5301, D5303, D5401, D5403 | ⑥ |
| D5002 | ⑧ |

∗: Refer to Terminal name of semiconductors in silk screen printed circuit (see page 5-9)

Schematic diagram
A board ➡

## (3) Schematic Diagram of A Board



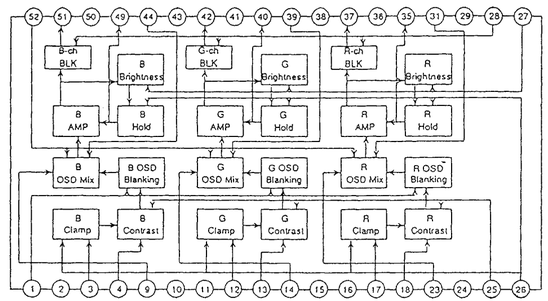

### • A BOARD WAVEFORMS

| | | | |
|---|---|---|---|
| ① | 3.0 Vp-p (H) | ⑥ | 37.0 Vp-p (H) |
| ② | 35.0 Vp-p (H) | ⑦ | 35.0 Vp-p (H) |
| ③ | 35.0 Vp-p (H) | ⑧ | 35.0 Vp-p (H) |
| ④ | 35.0 Vp-p (H) | ⑨ | 37.0 Vp-p (H) |
| ⑤ | 3.0 Vp-p (H) | | |

### • A BOARD VOLTAGE LIST

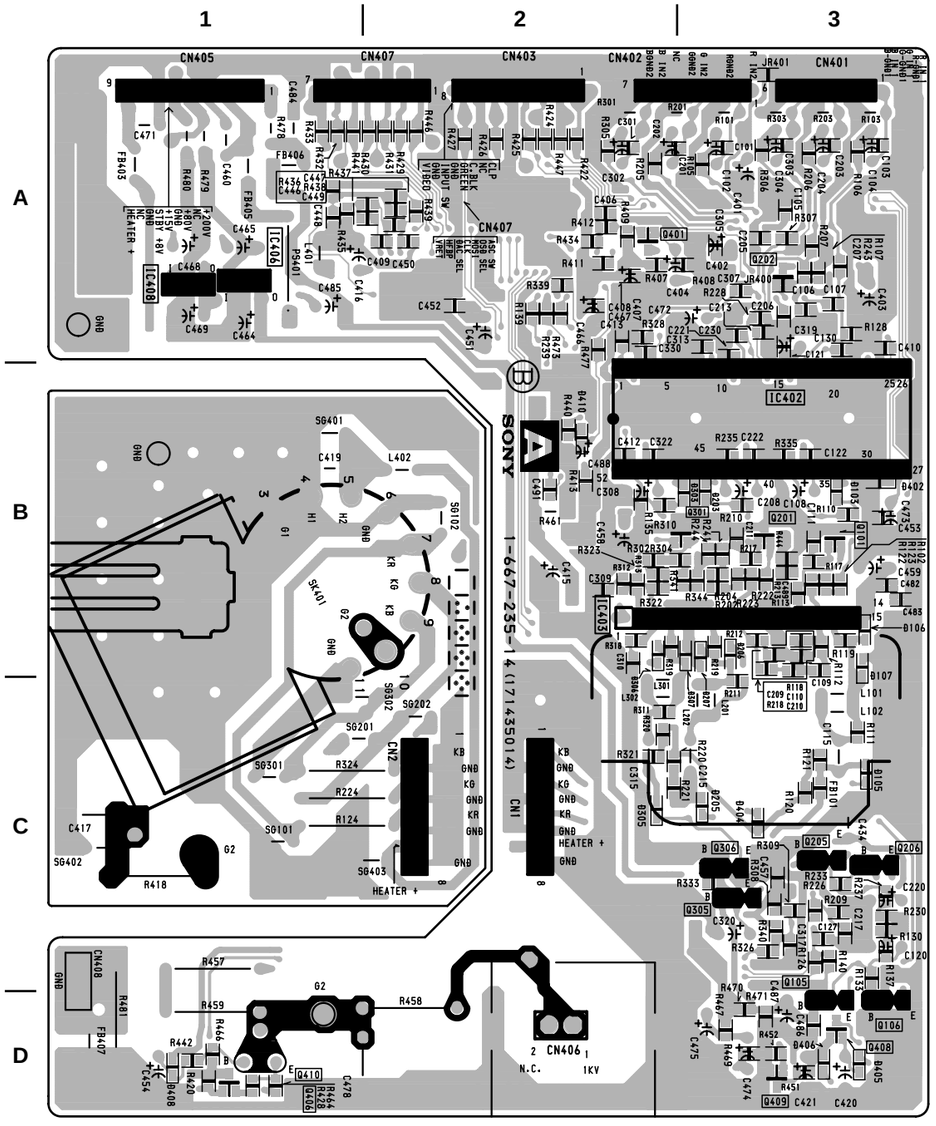
| Ref. | Pin No. | Voltage [V] | Ref. | Pin No. | Voltage [V] |
|---|---|---|---|---|---|
| IC402 | 1 | 1.1 | | E | 6.8 |
| | 3 | 2.8 | Q106 | B | 112.6 |
| | 4 | 3.7 | | E | 113.3 |
| | 9 | 1.1 | Q201 | B | 2.7 |
| | 12 | 2.8 | | E | 3.5 |
| | 13 | 3.8 | Q205 | B | 7.4 |
| | 14 | 1.1 | | C | 109.9 |
| | 17 | 2.8 | | E | 6.8 |
| | 18 | 3.9 | Q206 | B | 109.9 |
| | 23 | 1.1 | | E | 110.4 |
| | 25 | 3.3 | Q301 | B | 2.7 |
| | 26 | 0.7 | | E | 3.4 |
| | 27 | 2.4 | Q305 | B | 7.4 |
| | 28 | 1.2 | | C | 113.1 |
| | 35 | 4.4 | | E | 6.8 |
| | 37 | 2.7 | Q306 | B | 113.1 |
| | 40 | 4.4 | | E | 113.7 |
| | 42 | 2.7 | Q401 | B | 3.6 |
| | 49 | 4.4 | | C | 0.7 |
| | 51 | 2.7 | | E | 4.3 |
| | 52 | 2.1 | Q406 | B | 7.9 |
| IC403 | 1 | 3.4 | | E | 9.0 |
| | 2 | 2.8 | Q410 | B | 9.7 |
| | 3 | 53.6 | | C | 484.0 |
| | 5 | 52.7 | | E | 9.1 |
| | 6 | 2.9 | SK401 | KR | 87.0 |
| | 7 | 3.4 | | KG | 87.0 |
| | 8 | 9.8 | | KB | 87.0 |
| | 10 | 9.8 | | G2 | 474.0 |
| | 11 | 3.5 | | H2 | 6.5 |
| | 12 | 2.9 | | | |
| | 13 | 52.3 | | | |
| Q101 | B | 2.8 | | | |
| | E | 3.5 | | | |
| Q105 | B | 7.3 | | | |
| | C | 112.6 | | | |

### • A BOARD IC402 M52722P



A VIDEO AMP RGB OUT

— A BOARD (Conductor Side) —




• A BOARD SEMICONDUCTOR LOCATION

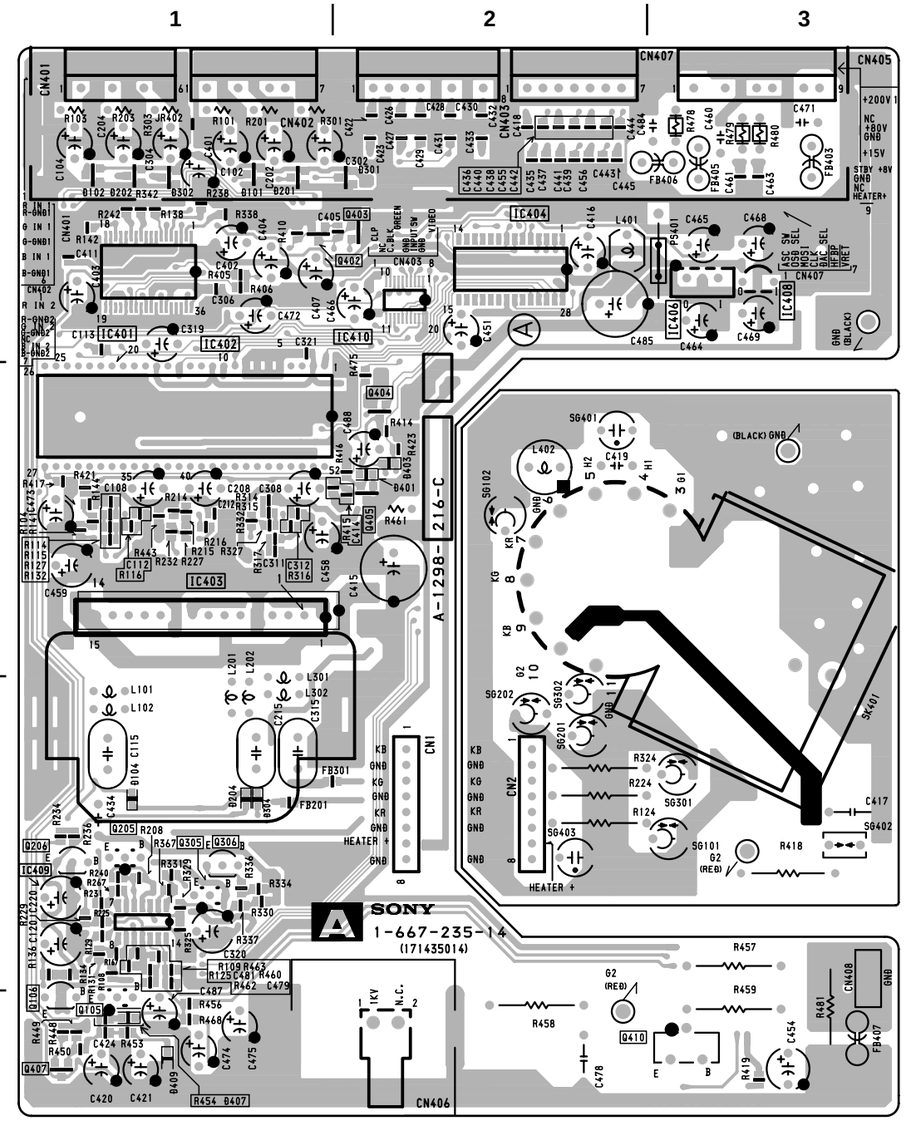
| IC | (Conductor Side) | (Component Side) |
|---|---|---|
| IC401 | | A–1 |
| IC402 | B–3 | B–1 |
| IC403 | B–3 | B–1 |
| IC404 | | A–2 |
| IC406 | A–1 | A–3 |
| IC408 | A–1 | A–3 |
| IC409 | | C–1 |
| IC410 | | A–2 |

| TRANSISTOR | (Conductor Side) | (Component Side) | ∗ |
|---|---|---|---|
| Q101 | B–3 | | ① |
| Q105 | D–3 | D–1 | – |
| Q106 | D–3 | D–1 | – |
| Q201 | B–3 | | ① |
| Q202 | A–3 | | ① |
| Q205 | C–3 | C–1 | – |
| Q206 | C–3 | C–1 | – |
| Q301 | B–3 | | ① |
| Q305 | C–3 | C–1 | – |
| Q306 | C–3 | C–1 | – |
| Q401 | A–2 | | ① |
| Q402 | | A–1 | ② |
| Q403 | | A–2 | ② |
| Q404 | | B–2 | ② |
| Q405 | | B–2 | ② |
| Q406 | D–1 | | ① |
| Q407 | | D–1 | ② |
| Q408 | D–3 | | ① |
| Q409 | D–3 | | ① |
| Q410 | D–1 | D–3 | – |

| DIODE | (Conductor Side) | (Component Side) | ∗ |
|---|---|---|---|
| D101 | | A–1 | ⑦ |
| D102 | | A–1 | ⑦ |
| D103 | B–3 | | ③ |
| D104 | | C–1 | ③ |
| D105 | C–3 | | ③ |
| D106 | B–3 | | ③ |
| D107 | B–3 | | ③ |
| D201 | | A–1 | ⑦ |
| D202 | | A–1 | ⑦ |
| D203 | B–3 | | ③ |
| D204 | | C–1 | ③ |
| D205 | C–3 | | ③ |
| D206 | B–3 | | ③ |
| D207 | B–3 | | ③ |
| D301 | | A–2 | ⑦ |
| D302 | | A–1 | ⑦ |
| D303 | B–3 | | ③ |
| D304 | | C–1 | ③ |
| D305 | C–2 | | ③ |
| D306 | B–2 | | ③ |
| D307 | B–3 | | ③ |
| D401 | | B–2 | ③ |
| D402 | B–3 | | ③ |
| D404 | C–3 | | ③ |
| D405 | D–3 | | ③ |
| D406 | D–3 | | ③ |
| D407 | | D–1 | ③ |
| D408 | D–1 | | ③ |
| D409 | | D–1 | ③ |
| D410 | B–2 | | ③ |

∗: Refer to Terminal name of semiconductors in silk screen printed circuit (see page 5-9)

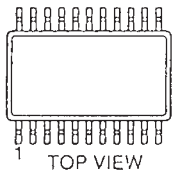
— A BOARD (Component Side) —



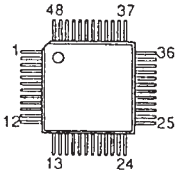

**NOTE:**
The circuit indicated as left contains high voltage of over 600 Vp-p. Care must be paid to prevent an electric shock in inspection or repairing.

## 5-4. SEMICONDUCTORS

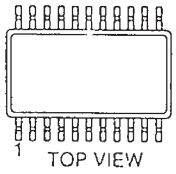
**BA9756FS-E2**
**M62352GP-75E**
**M62352GP-75ED**



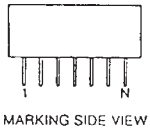

**CXA2043Q**



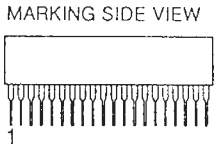

**CXA2044M**
**LSC4380DW2EL**



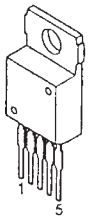

**DM-60**



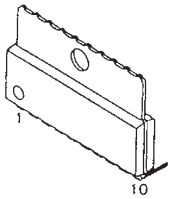

**FA4111**



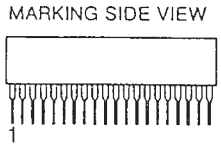

**LA6500-FA**



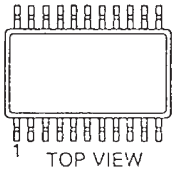

**LA6510**



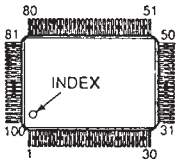

**LA7841L**



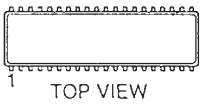

**LM324M**
**TC74HCT04AF**



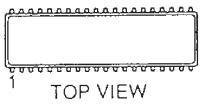

**MB90553PF-G-112-BND**



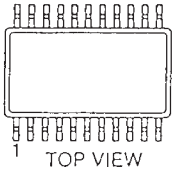

**MC33262P**
**MM1170BFB**



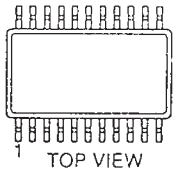

**M52722P**



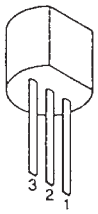

**M52755FP**



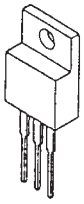

**NJM4558M**
**TC7W04FU**
**µPC4558G2**
**24LC16BT/SN**
**24LC21A/SN**



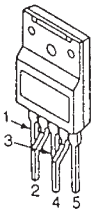

**NJM78L05A**
**NJM78L09A**
**TA78L05S**
**TA78L09S**



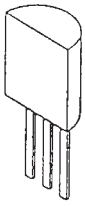

**NJM78M09FA**
**TA7805S**
**TA7812S**



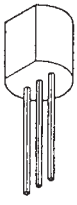
**SI-3050F**



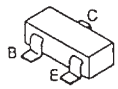

**µPC1093J**



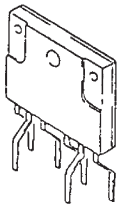
**µPC78L05J**



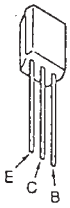
**DTA114GKAT146**
**DTA124EKA-T146**
**DTC114GKA**
**DTC114GKAT146**
**DTC124EK**
**DTC124EKA-T146**
**2SA1036K-Q**
**2SA1036K-T-146-Q**
**2SA1037AK-T146-QR**
**2SA1037AK-T146-R**
**2SA1037K-T-146-QR**
**2SA1162G**
**2SA1462-Y33**
**2SA1738-TX**
**2SB709A-QRS-TX**
**2SC1623-L5L6**
**2SC2411K-CQ**
**2SC2411K-T-146-CQ**
**2SC2412K-T-146-QR**
**2SC3545-T43**




**MX0841AB-F**

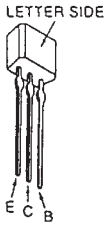


**2SA1049-GR**
**2SC2458-YGR**
**2SC2459-GR**

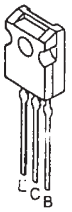



**2SA1091-O**
**2SC2362K-G**

**2SA1175-HFE**
**2SA1309A-QRSTA**
**2SC2784**
**2SC2785-HFE**
**2SC3311A-QRSTA**

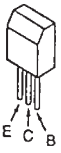



**2SA1358-Y**
**2SC3421-Y**

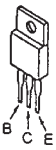



**2SC2362KG-AA**

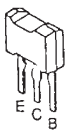
**2SC3209LK**



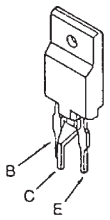

**2SC3746**
**2SC4686A (LBSONY)**
**2SJ449**
**2SJ449 (1)**
**2SJ449 (2)**



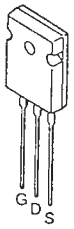

**2SC4015TV2**



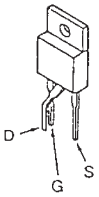
**2SC5047-CA**



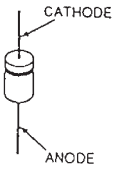

**2SK1120LBSONY2**
**2SK2098-01MR**



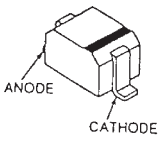

**2SK2195F04**



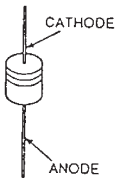

**AG01A-V0**
**ERA91-02**
**S2LA20F**



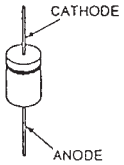

**DTZ-TT11-16B**
**DTZ10B**
**DTZ13B**
**DTZ24B**
**DTZ33B**
**DTZ4.7C**
**DTZ5.1B**
**MA111**
**RD12SB2**
**RD5.6SB**
**UDZ-TE-17-10B**
**UDZ-TE-17-12B**
**UDZ-TE-17-13B**
**UDZ-TE-17-16B**
**UDZ-TE-17-24B**
**UDZ-TE-17-33B**
**UDZ-TE-17-4.7B**
**UDZ-TE-17-5.1B**
**UDZ-TE-17-5.6B**
**UDZ-TE-17-6.2B**
**UDZ-TE-17-7.5B**



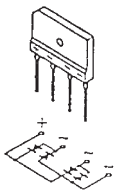

**D1NL20-TR**
**GMA01**
**RD12ES-B2**
**RD16ES-B2**
**RD16ES-B3**
**RD18ES-B2**
**RD22ES-B2**
**RD5.1ES-B2**
**RD6.2ESB2**
**1SS119-25TD**
**1SS119-25**
**1SS120TD**




**D2S4MF**
**D2S4MTA1**

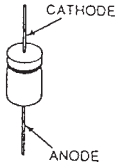



**D4SBS4**
**D4SBS4-F**
**D4SBL40**
**D4SB60L**

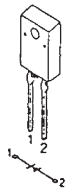


**D5LC20U**

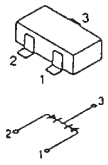
**EGP20G**
**ERA34-10**
**RGP02-17EL-6433**
**RGP02-17PKG23**
**RGP02-20EG23**
**RGP02-20EL-6394**
**RGP15GPKG23**
**UF4005PKG23**



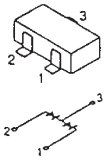

**FMQ-G5GS**
**D5L60**



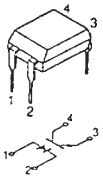
**MA151WK**
**1SS184**



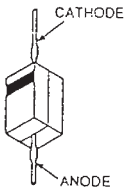
**MA153**
**1SS226**



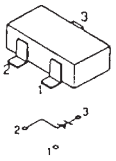
**PC123F2**
**PC123FY2**



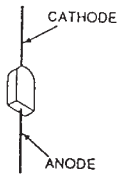
**P6KE200AG23**




**RD6.2M-B1**

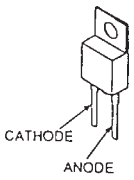


**RM11A**
**RM11C**

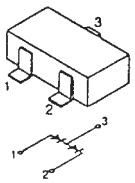



**SB560**

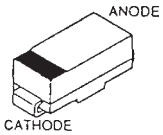
**YG911S3R**




**1PS226-115**



**1SS376TE-17**



# SECTION 6
# EXPLODED VIEWS

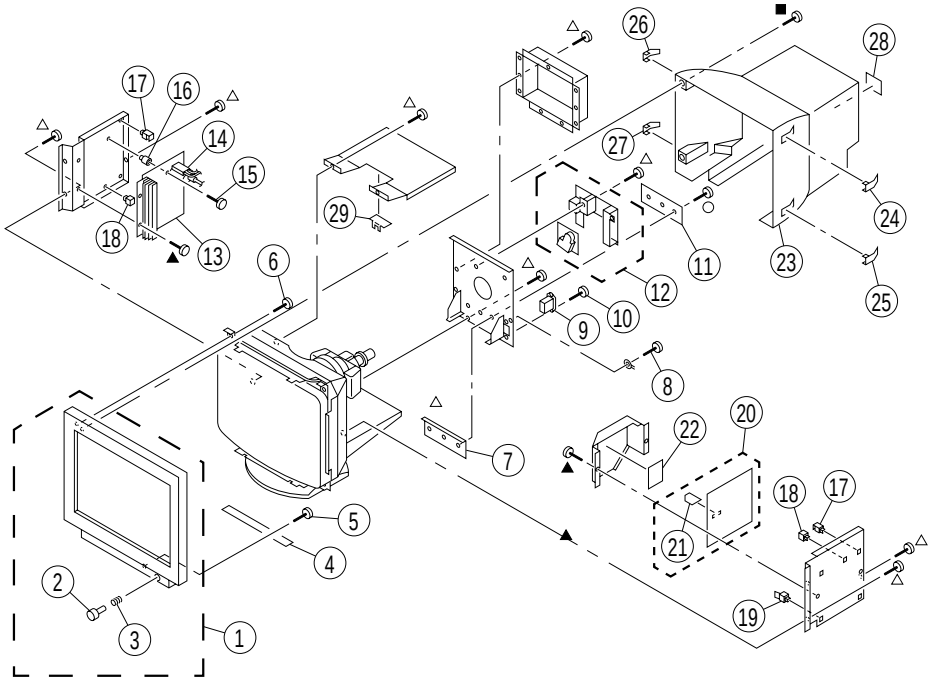
- Items with no part number and no description are not stocked because they are seldom required for routine service.
- The construction parts of an assembled part are indicated with a collation number in the remark column.
- Items marked " * " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

Les composants identifiés per un tramé et une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une piéce portant le numéro spécifié.

## 6-1. CHASSIS

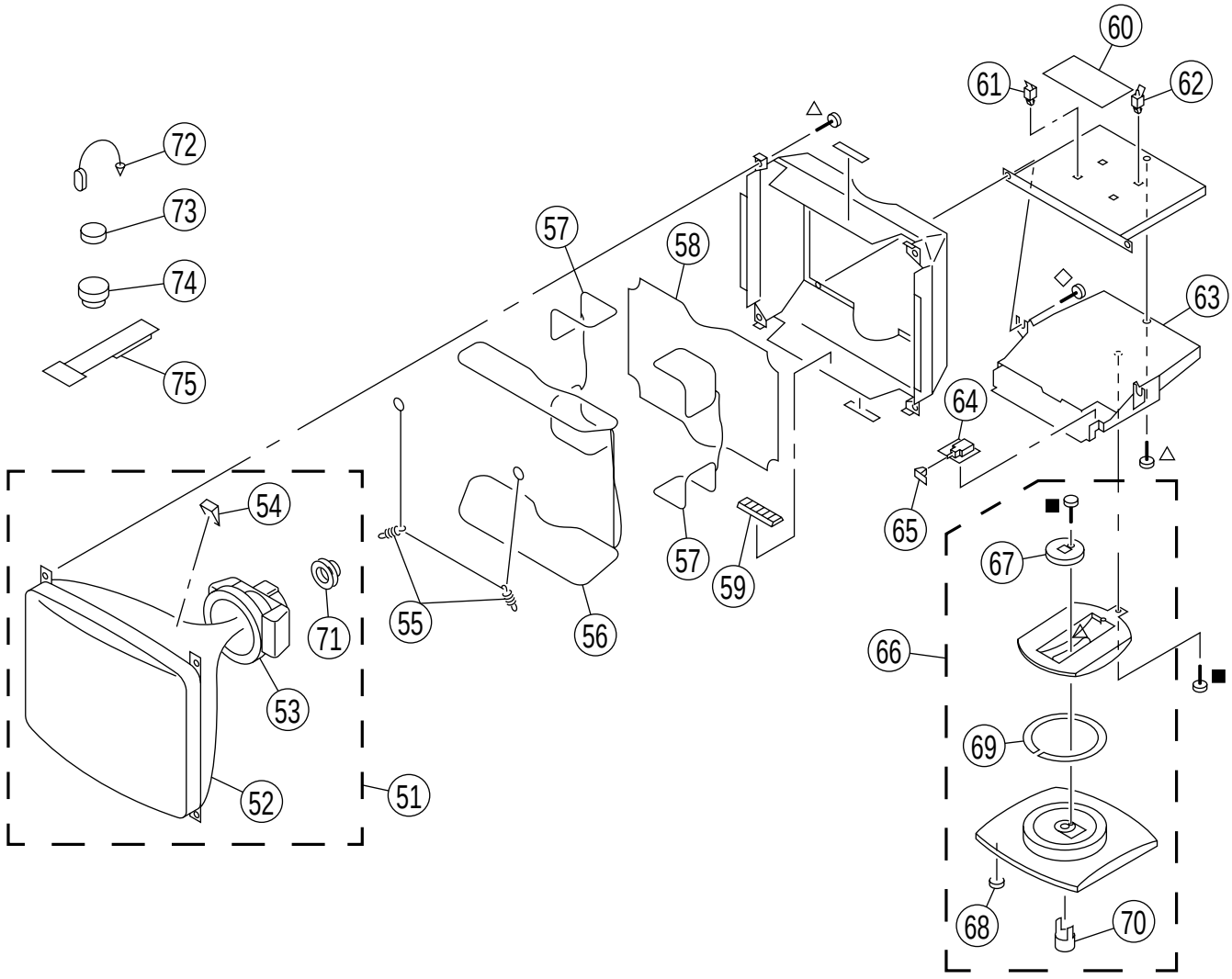
▲ 7-685-647-79 +BVTP 3X10
■ 7-685-663-71 +BVTP 4X16
○ 7-685-872-09 +BVTT 3X8
△ 7-685-881-09 +BVTT 4X8




| REF.NO. | PART NO. | DESCRIPTION | REMARK |
|---|---|---|---|
| 1 | X-4035-342-1 | BEZEL ASSY [03N/03S] | 2.3 |
| 1 | X-4035-486-1 | BEZEL ASSY [43N/43S] | 2.3 |
| 2 | 4-063-129-01 | BUTTON, POWER | |
| 3 | 3-653-339-01 | SPRING, COMPRESSION | |
| 4 | * 8-933-283-00 | H BOARD, COMPLETE | |
| 5 | 4-029-432-01 | SCREW (3×12), (+) BVWHTP | |
| 6 | 4-365-808-01 | SCREW (5), TAPPING | |
| 7 | 1-694-381-11 | TREMINAL BOARD ASSY, I/O | |
| 8 | 4-389-025-01 | SCREW (M4) (EXT TOOTH WASHER) | |
| 9 | ⚠ 1-251-382-12 | INLET, AC 3P (WITH NOISE FILTE) | |
| 10 | 4-052-345-01 | SCREW, (3×8) (+K), TAPPING | |
| 11 | * 4-063-091-01 | SHEET, CONNECTOR | |
| 12 | * 8-933-306-00 | A BOARD, COMPLETE | |
| 13 | * 8-933-307-00 | D BOARD, COMPLETE | |
| 14 | ⚠ X-4035-170-1 | TRANSFOMER ASSY, FLYBACK (NX-4142//J1D4) | |
| 15 | 4-062-115-01 | SCREW +P 3.5×20 TYPE2 | |
| 16 | * 4-060-359-01 | HOLDER, PRINTED CIRCUIT BOARD | |
| 17 | * 3-701-903-11 | HOLDER, PRINTED CIRCUIT BOARD | |
| 18 | * 4-382-848-01 | HOLDER, PRINTED CIRCUIT BOARD | |
| 19 | * 3-703-141-00 | HOLDER, PRINTED CIRCUIT BOARD | |
| 20 | * 8-933-277-00 | G BOARD, COMPLETE | 21 |
| 21 | * 8-933-269-00 | GA BOARD, COMPLETE | |
| 22 | * 4-061-494-01 | SHEET, INSULATE | |
| 23 | X-4035-382-1 | CABINET ASSY [03N/03S] | |
| 23 | X-4035-488-1 | CABINET ASSY [43N/43S] | |
| 24 | 4-063-133-01 | COVER (RIGHT UPPER), SCREW [03N/03S] | |
| 24 | 4-063-133-11 | COVER (RIGHT UPPER), SCREW [43N/43S] | |
| 25 | 4-063-135-01 | COVER (RIGHT LOWER), SCREW [03N/03S] | |
| 25 | 4-063-135-11 | COVER (RIGHT LOWER), SCREW [43N/43S] | |
| 26 | 4-063-134-01 | COVER (LEFT UPPER), SCREW [03N/03S] | |
| 26 | 4-063-134-11 | COVER (LEFT UPPER), SCREW [43N/43S] | |
| 27 | 4-063-136-01 | COVER (LEFT LOWER), SCREW [03N/03S] | |
| 27 | 4-063-136-11 | COVER (LEFT LOWER), SCREW [43N/43S] | |
| 28 | * 4-064-137-01 | LABEL, INFORMATION [03N] | |
| 28 | * 4-064-137-11 | LABEL, INFORMATION [03S] | |
| 28 | * 4-064-137-21 | LABEL, INFORMATION [43N] | |
| 28 | * 4-064-137-31 | LABEL, INFORMATION [43S] | |
| 29 | 4-063-711-01 | SUPPORT, HV CABLE | |

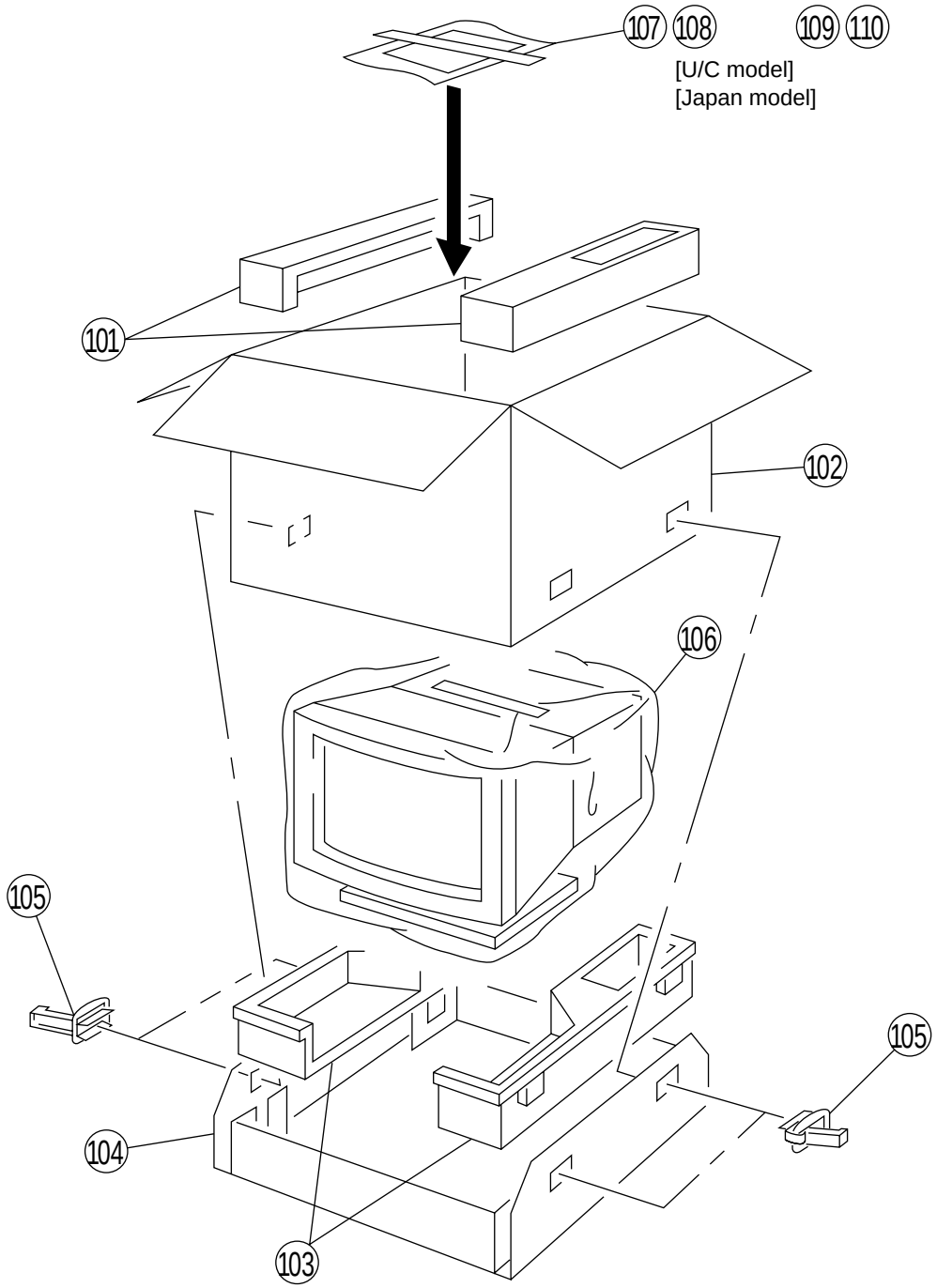
## 6-2. PICTURE TUBE

■ 7-685-663-71 +BVTP 4X16
△ 7-685-881-09 +BVTT 4X8
◇ 7-685-883-01 +BVTT 4X12




| REF.NO. | PART NO. | DESCRIPTION | REMARK |
|---|---|---|---|
| 51 | ⚠ 8-738-796-81 | ITC ASSY (21SRG-R2) [03N/43N] | 52-54, 71 |
| 51 | ⚠ 8-738-799-81 | ITC ASSY (21SRG-RS2) [03S/43S] | 52-54, 71 |
| 52 | ⚠ 8-738-796-00 | PICTURE TUBE (21SRG) [03N/43N Japan model] | |
| 52 | ⚠ 8-738-796-05 | PICTURE TUBE (21SRG) [03N/43N U/C, AEP model] | |
| 52 | ⚠ 8-738-799-05 | PICTURE TUBE (21SRG) [03S/43S] | |
| 53 | ⚠ 8-451-493-31 | DEFLECTION YOKE (Y21SRL-M3) | |
| 54 | 4-050-492-01 | SPACER, DY | |
| 55 | * 4-047-316-01 | SPRING, TENSION | |
| 56 | ⚠ 1-416-437-11 | COIL, DEMAGNETIC | |
| 57 | ⚠ 1-416-140-21 | COIL, LANDING CORRECTION | |
| 58 | ⚠ 1-416-438-21 | COIL, LANDING CORRECTION | |
| 59 | 4-062-670-03 | SPACER, PICTURE TUBE | |
| 60 | * 8-933-263-00 | L BOARD, COMPLETE | |
| 61 | * 4-321-929-00 | HOLDER, PRINTED CIRCUIT BOARD | |
| 62 | * 3-703-141-00 | HOLDER, PRINTED CIRCUIT BOARD | |
| 63 | * 4-061-603-31 | COVER, BOTTOM [03N/03S] | |
| 63 | * 4-061-603-51 | COVER, BOTTOM [43N/43S] | |
| 64 | * 8-933-279-00 | J BOARD, COMPLETE | |
| 65 | * 4-394-972-21 | CAP, POWER | |
| 66 | X-4035-384-1 | STAND ASSY [03N/03S] | 67-70 |
| 66 | X-4035-590-2 | STAND ASSY [43N/43S] | 67-70 |
| 67 | 4-061-396-01 | STOPPER (A) | |
| 68 | 4-047-474-01 | FOOT, RUBBER | |
| 69 | 4-060-339-01 | RING, TILT SWIVEL | |
| 70 | 4-062-381-01 | STOPPER (B) | |
| 71 | ⚠ 1-452-932-11 | NECK ASSEMBLY, PICTURE TUBE | |
| 72 | 4-308-870-00 | CLIP, LEAD WIRE | |
| 73 | 1-452-032-00 | MAGNET, DISK:10mmϕ | |
| 74 | 1-452-094-00 | MAGNET, ROTATABLE DISK:15mmϕ | |
| 75 | 4-059-493-01 | PERMALLOY (90), CONV.CORRECT | |

## 6-3. PACKING MATERIALS




| REF.NO. | PART NO. | DESCRIPTION | REMARK |
|---|---|---|---|
| 101 | 4-062-988-01 | CUSHION (UPPER) (ASSY) | |
| 102 | 4-062-987-01 | INDIVIDUAL CARTON | |
| 103 | 4-062-990-01 | CUSHION (LOWER) (ASSY) | |
| 104 | *4-061-815-01 | TRAY | |
| 105 | 4-396-077-01 | JOINT | |
| 106 | 4-063-578-01 | BAG, PROTECTION [43N/43S] | |
| 106 | 4-063-577-01 | BAG, POLYETHTLENE [03N/03S] | |
| 107 | 1-783-247-11 | CABLE ASSY [03N/03S] | |
| 107 | 1-783-250-11 | CABLE ASSY [43N/43S] | |
| 108 | ⚠1-783-507-11 | CORD SET, POWER (10A/125V) | [43N U/C model] |
| 108 | ⚠1-783-507-21 | CORD SET, POWER (10A/125V) | [03N U/C model] |
| 108 | ⚠1-783-507-11 | CORD SET, POWER (10A/125V) | [43N U/C model] |
| 108 | ⚠1-783-533-11 | CORD SET, POWER (...A/...V) | [Japan model] |
| 109 | 3-862-438-11 | MANUAL, INSTRUCTION | [except Japan model] |
| 109 | 3-862-438-01 | MANUAL, INSTRUCTION [Japan model] | |
| 110 | 4-063-796-01 | MONITOR INFORMATION DISK (IBM) | |

# SECTION 7
# ELECTRICAL PARTS LIST

A

NOTE:

The components identified by shading and mark ⚠ are critical for safety.
Replace only with part number specified.

Les composants identifiés per un tramé et une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une piéce portant le numéro spécifié.

When indicating parts by reference number, please include the board name.

- All variable and adjustable resistors have characteristic curve B, unless otherwise noted.

RESISTORS
- All resistors are in ohms
- F : nonflammable

- Items marked " * " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

- CAPACITORS
  MF : µF
- COILS
  UH : µH

| REF.NO. | PART NO. | DESCRIPTION | | | REMARK |
|---|---|---|---|---|---|
| | *8-933-306-00 | A BOARD, COMPLETE | | | |
| | | ********** | | | |
| | 4-382-854-11 | SCREW (M3X10), P, SW (+) (IC403) | | | |
| | <CAPACITOR> | | | | |
| C101 | 1-164-232-11 | CERAMIC CHIP 0.01MF | 10% | 50V | |
| C102 | 1-104-664-11 | ELECT 47MF | 20% | 25V | |
| C103 | 1-164-232-11 | CERAMIC CHIP 0.01MF | 10% | 50V | |
| C104 | 1-104-664-11 | ELECT 47MF | 20% | 25V | |
| C105 | 1-164-232-11 | CERAMIC CHIP 0.01MF | 10% | 50V | |
| C106 | 1-164-232-11 | CERAMIC CHIP 0.01MF | 10% | 50V | |
| C107 | 1-164-004-11 | CERAMIC CHIP 0.1MF | 10% | 25V | |
| C108 | 1-107-903-11 | ELECT 2.2MF | 20% | 50V | |
| C109 | 1-163-237-11 | CERAMIC CHIP 27PF | 5% | 50V | |
| C110 | 1-163-275-11 | CERAMIC CHIP 0.001MF | 5% | 50V | |
| C111 | 1-163-017-00 | CERAMIC CHIP 0.0047MF | 10% | 50V | |
| C112 | 1-164-004-11 | CERAMIC CHIP 0.1MF | 10% | 25V | |
| C115 | 1-104-514-11 | FILM 0.22MF | 10% | 250V | |
| C120 | 1-107-949-11 | ELECT 2.2MF | 20% | 200V | |
| C121 | 1-164-232-11 | CERAMIC CHIP 0.01MF | 10% | 50V | |
| C122 | 1-164-004-11 | CERAMIC CHIP 0.1MF | 10% | 25V | |
| C127 | 1-164-232-11 | CERAMIC CHIP 0.01MF | 10% | 50V | |
| C130 | 1-164-232-11 | CERAMIC CHIP 0.01MF | 10% | 50V | |
| C201 | 1-164-232-11 | CERAMIC CHIP 0.01MF | 10% | 50V | |
| C202 | 1-104-664-11 | ELECT 47MF | 20% | 25V | |
| C203 | 1-164-232-11 | CERAMIC CHIP 0.01MF | 10% | 50V | |
| C204 | 1-104-664-11 | ELECT 47MF | 20% | 25V | |
| C205 | 1-164-232-11 | CERAMIC CHIP 0.01MF | 10% | 50V | |
| C206 | 1-164-232-11 | CERAMIC CHIP 0.01MF | 10% | 50V | |
| C207 | 1-164-004-11 | CERAMIC CHIP 0.1MF | 10% | 25V | |
| C208 | 1-107-903-11 | ELECT 2.2MF | 20% | 50V | |
| C209 | 1-163-237-11 | CERAMIC CHIP 27PF | 5% | 50V | |
| C210 | 1-163-275-11 | CERAMIC CHIP 0.001MF | 5% | 50V | |
| C211 | 1-163-017-00 | CERAMIC CHIP 0.0047MF | 10% | 50V | |
| C212 | 1-164-004-11 | CERAMIC CHIP 0.1MF | 10% | 25V | |
| C215 | 1-104-514-11 | FILM 0.22MF | 10% | 250V | |
| C217 | 1-164-232-11 | CERAMIC CHIP 0.01MF | 10% | 50V | |
| C220 | 1-107-949-11 | ELECT 2.2MF | 20% | 200V | |
| C221 | 1-164-232-11 | CERAMIC CHIP 0.01MF | 10% | 50V | |
| C222 | 1-164-004-11 | CERAMIC CHIP 0.1MF | 10% | 25V | |
| C230 | 1-164-232-11 | CERAMIC CHIP 0.01MF | 10% | 50V | |
| C301 | 1-164-232-11 | CERAMIC CHIP 0.01MF | 10% | 50V | |
| C302 | 1-104-664-11 | ELECT 47MF | 20% | 25V | |
| C303 | 1-164-232-11 | CERAMIC CHIP 0.01MF | 10% | 50V | |
| C304 | 1-104-664-11 | ELECT 47MF | 20% | 25V | |
| C305 | 1-164-232-11 | CERAMIC CHIP 0.01MF | 10% | 50V | |
| C306 | 1-164-232-11 | CERAMIC CHIP 0.01MF | 10% | 50V | |
| C307 | 1-164-004-11 | CERAMIC CHIP 0.1MF | 10% | 25V | |
| C308 | 1-107-903-11 | ELECT 2.2MF | 20% | 50V | |
| C309 | 1-163-235-11 | CERAMIC CHIP 22PF | 5% | 50V | |
| C310 | 1-163-275-11 | CERAMIC CHIP 0.001MF | 5% | 50V | |
| C311 | 1-163-017-00 | CERAMIC CHIP 0.0047MF | 10% | 50V | |
| C312 | 1-164-004-11 | CERAMIC CHIP 0.1MF | 10% | 25V | |
| C315 | 1-104-514-11 | FILM 0.22MF | 10% | 250V | |
| C317 | 1-164-232-11 | CERAMIC CHIP 0.01MF | 10% | 50V | |
| C319 | 1-107-888-11 | ELECT 47MF | 20% | 25V | |
| C320 | 1-107-949-11 | ELECT 2.2MF | 20% | 200V | |
| C321 | 1-164-232-11 | CERAMIC CHIP 0.01MF | 10% | 50V | |
| C322 | 1-164-004-11 | CERAMIC CHIP 0.1MF | 10% | 25V | |
| C330 | 1-164-232-11 | CERAMIC CHIP 0.01MF | 10% | 50V | |
| C401 | 1-126-964-11 | ELECT 10MF | 20% | 50V | |
| C402 | 1-104-664-11 | ELECT 47MF | 20% | 25V | |
| C403 | 1-104-664-11 | ELECT 47MF | 20% | 25V | |
| C404 | 1-126-964-11 | ELECT 10MF | 20% | 50V | |
| C405 | 1-163-227-11 | CERAMIC CHIP 10PF | 0.5PF | 50V | |
| C407 | 1-126-964-11 | ELECT 10MF | 20% | 50V | |
| C408 | 1-164-232-11 | CERAMIC CHIP 0.01MF | 10% | 50V | |
| C409 | 1-163-235-11 | CERAMIC CHIP 22PF | 5% | 50V | |
| C410 | 1-164-232-11 | CERAMIC CHIP 0.01MF | 10% | 50V | |
| C412 | 1-164-232-11 | CERAMIC CHIP 0.01MF | 10% | 50V | |
| C414 | 1-163-239-11 | CERAMIC CHIP 33PF | 5% | 50V | |
| C415 | 1-128-562-11 | ELECT 47MF | 20% | 100V | |
| C416 | 1-104-664-11 | ELECT 47MF | 20% | 25V | |
| C417 | 1-115-349-51 | CERAMIC 0.01MF | | 2KV | |
| C419 | 1-162-318-11 | CERAMIC 0.001MF | 10% | 500V | |
| C420 | 1-126-967-11 | ELECT 47MF | 20% | 50V | |
| C421 | 1-126-964-11 | ELECT 10MF | 20% | 50V | |
| C424 | 1-164-004-11 | CERAMIC CHIP 0.1MF | 10% | 25V | |
| C429 | 1-163-227-11 | CERAMIC CHIP 10PF | 0.5PF | 50V | |
| C431 | 1-164-232-11 | CERAMIC CHIP 0.01MF | 10% | 50V | |
| C434 | 1-162-318-11 | CERAMIC 0.001MF | 10% | 500V | |

| REF.NO. | PART NO. | DESCRIPTION | REMARK |
|---|---|---|---|
| C435 | 1-164-232-11 | CERAMIC CHIP 0.01MF 10% 50V | |
| C436 | 1-163-243-11 | CERAMIC CHIP 47PF 5% 50V | |
| C438 | 1-163-243-11 | CERAMIC CHIP 47PF 5% 50V | |
| C440 | 1-163-243-11 | CERAMIC CHIP 47PF 5% 50V | |
| C442 | 1-163-243-11 | CERAMIC CHIP 47PF 5% 50V | |
| C443 | 1-163-243-11 | CERAMIC CHIP 47PF 5% 50V | |
| C444 | 1-163-243-11 | CERAMIC CHIP 47PF 5% 50V | |
| C445 | 1-163-009-11 | CERAMIC CHIP 0.001MF 10% 50V | |
| C446 | 1-164-004-11 | CERAMIC CHIP 0.1MF 10% 25V | |
| C447 | 1-164-004-11 | CERAMIC CHIP 0.1MF 10% 25V | |
| C448 | 1-164-004-11 | CERAMIC CHIP 0.1MF 10% 25V | |
| C450 | 1-163-235-11 | CERAMIC CHIP 22PF 5% 50V | |
| C451 | 1-126-964-11 | ELECT 10MF 20% 50V | |
| C452 | 1-164-232-11 | CERAMIC CHIP 0.01MF 10% 50V | |
| C453 | 1-164-232-11 | CERAMIC CHIP 0.01MF 10% 50V | |
| C454 | 1-104-665-11 | ELECT 100MF 20% 25V | |
| C455 | 1-163-243-11 | CERAMIC CHIP 47PF 5% 50V | |
| C457 | 1-164-232-11 | CERAMIC CHIP 0.01MF 10% 50V | |
| C458 | 1-126-964-11 | ELECT 10MF 20% 50V | |
| C459 | 1-107-930-91 | ELECT 22MF 20% 100V | |
| C460 | 1-162-318-11 | CERAMIC 0.001MF 10% 500V | |
| C461 | 1-164-232-11 | CERAMIC CHIP 0.01MF 10% 50V | |
| C463 | 1-164-232-11 | CERAMIC CHIP 0.01MF 10% 50V | |
| C464 | 1-107-906-11 | ELECT 10MF 20% 50V | |
| C465 | 1-107-906-11 | ELECT 10MF 20% 50V | |
| C466 | 1-126-964-11 | ELECT 10MF 20% 50V | |
| C467 | 1-164-232-11 | CERAMIC CHIP 0.01MF 10% 50V | |
| C468 | 1-126-964-11 | ELECT 10MF 20% 50V | |
| C469 | 1-126-964-11 | ELECT 10MF 20% 50V | |
| C471 | 1-162-318-11 | CERAMIC 0.001MF 10% 500V | |
| C478 | 1-115-350-51 | CERAMIC 0.0047MF 2KV | |
| C479 | 1-163-133-00 | CERAMIC CHIP 470PF 5% 50V | |
| C481 | 1-164-232-11 | CERAMIC CHIP 0.01MF 10% 50V | |
| C482 | 1-115-339-11 | CERAMIC CHIP 0.1MF 10% 50V | |
| C483 | 1-115-339-11 | CERAMIC CHIP 0.1MF 10% 50V | |
| C484 | 1-162-318-11 | CERAMIC 0.001MF 10% 500V | |
| C485 | 1-107-652-11 | ELECT 10MF 20% 250V | |
| C486 | 1-164-232-11 | CERAMIC CHIP 0.01MF 10% 50V | |
| C487 | 1-126-964-11 | ELECT 10MF 20% 50V | |
| C488 | 1-104-664-11 | ELECT 47MF 20% 25V | |
| C489 | 1-164-004-11 | CERAMIC CHIP 0.1MF 10% 25V | |
| C491 | 1-164-232-11 | CERAMIC CHIP 0.01MF 10% 50V | |

<CONNECTOR>

| | | | |
|---|---|---|---|
| CN401* | 1-564-521-11 | PLUG, CONNECTOR 6P | |
| CN402* | 1-564-522-11 | PLUG, CONNECTOR 7P | |
| CN403 | 1-564-523-11 | PLUG, CONNECTOR 8P | |
| CN405 | 1-564-524-11 | PLUG, CONNECTOR 9P | |
| CN406* | 1-766-179-11 | PIN, CONNECTOR (PC BOARD) 2P | |
| CN407* | 1-564-522-11 | PLUG, CONNECTOR 7P | |

<DIODE>

| | | | |
|---|---|---|---|
| D101 | 8-719-062-51 | DIODE 1PS226-115 | |
| D102 | 8-719-062-51 | DIODE 1PS226-115 | |
| D103 | 8-719-404-49 | DIODE MA111 | |
| D104 | 8-719-052-12 | DIODE 1SS376TE-17 | |
| D105 | 8-719-052-12 | DIODE 1SS376TE-17 | |
| D106 | 8-719-052-12 | DIODE 1SS376TE-17 | |
| D107 | 8-719-052-12 | DIODE 1SS376TE-17 | |
| D201 | 8-719-062-51 | DIODE 1PS226-115 | |
| D202 | 8-719-062-51 | DIODE 1PS226-115 | |
| D203 | 8-719-404-49 | DIODE MA111 | |
| D204 | 8-719-052-12 | DIODE 1SS376TE-17 | |
| D205 | 8-719-052-12 | DIODE 1SS376TE-17 | |
| D206 | 8-719-052-12 | DIODE 1SS376TE-17 | |
| D207 | 8-719-052-12 | DIODE 1SS376TE-17 | |
| D301 | 8-719-062-51 | DIODE 1PS226-115 | |
| D302 | 8-719-062-51 | DIODE 1PS226-115 | |
| D303 | 8-719-404-49 | DIODE MA111 | |
| D304 | 8-719-052-12 | DIODE 1SS376TE-17 | |
| D305 | 8-719-052-12 | DIODE 1SS376TE-17 | |
| D306 | 8-719-052-12 | DIODE 1SS376TE-17 | |
| D307 | 8-719-052-12 | DIODE 1SS376TE-17 | |
| D401 | 8-719-404-49 | DIODE MA111 | |
| D402 | 8-719-976-99 | ZENER DIODE DTZ5.1B | |
| D403 | 8-719-404-49 | DIODE MA111 | |
| D404 | 8-719-052-12 | DIODE 1SS376TE-17 | |
| D405 | 8-719-404-49 | DIODE MA111 | |
| D406 | 8-719-404-49 | DIODE MA111 | |
| D407 | 8-719-404-49 | DIODE MA111 | |
| D408 | 8-719-404-49 | DIODE MA111 | |
| D409 | 8-719-404-49 | DIODE MA111 | |
| D410 | 8-719-404-49 | DIODE MA111 | |

<FERRITE BEAD>

| | | | |
|---|---|---|---|
| FB101 | 1-216-295-91 | SHORT | 0 |
| FB201 | 1-216-295-91 | SHORT | 0 |
| FB301 | 1-216-295-91 | SHORT | 0 |
| FB403 | 1-412-911-31 | FERRITE | 0UH |
| FB405 | 1-412-911-31 | FERRITE | 0UH |
| FB406 | 1-412-911-31 | FERRITE | 0UH |

<IC>

| | | | |
|---|---|---|---|
| IC401 | 8-759-522-86 | IC M52755FP-TP | |
| IC402 | 8-759-468-63 | IC M52722P | |
| IC403 | 8-749-013-74 | IC FA4111 | |
| IC404 | 8-759-492-78 | IC LSC4380DW2EL | |
| IC406 | 8-759-231-58 | IC TA7812S | |
| IC408 | 8-759-239-14 | IC TA78L05S | |
| IC409 | 8-759-502-82 | IC LM324M | |
| IC410 | 8-759-635-27 | IC M62352GP-75E | |

<COIL>

| | | | |
|---|---|---|---|
| L101 | 1-412-478-11 | INDUCTOR | 0.15UH |
| L201 | 1-412-478-11 | INDUCTOR | 0.15UH |

A

Les composants identifiés per un tramé et une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une piéce portant le numéro spécifié.

The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

| REF.NO. | PART NO. | DESCRIPTION | | | REMARK |
|---|---|---|---|---|---|
| L301 | 1-412-478-11 | INDUCTOR | 0.15UH | | |
| L401 | 1-408-421-00 | INDUCTOR | 100UH | | |
| L402 | 1-412-529-11 | INDUCTOR | 22UH | | |
| | | <IC LINK> | | | |
| PS401⚠ | 1-533-590-31 | LINK, IC (1A/90V AC, 60V DC) | | | |
| | | <TRANSISTOR> | | | |
| Q101 | 8-729-112-65 | TRANSISTOR 2SA1462-Y33 | | | |
| Q105 | 8-729-041-66 | TRANSISTOR 2SC4015TV2 | | | |
| Q106 | 8-729-200-17 | TRANSISTOR 2SA1091-O | | | |
| Q201 | 8-729-112-65 | TRANSISTOR 2SA1462-Y33 | | | |
| Q202 | 8-729-107-31 | TRANSISTOR 2SC3545-T43 | | | |
| Q205 | 8-729-041-66 | TRANSISTOR 2SC4015TV2 | | | |
| Q206 | 8-729-200-17 | TRANSISTOR 2SA1091-O | | | |
| Q301 | 8-729-112-65 | TRANSISTOR 2SA1462-Y33 | | | |
| Q305 | 8-729-041-66 | TRANSISTOR 2SC4015TV2 | | | |
| Q306 | 8-729-200-17 | TRANSISTOR 2SA1091-O | | | |
| Q401 | 8-729-216-22 | TRANSISTOR 2SA1162-G | | | |
| Q402 | 8-729-120-28 | TRANSISTOR 2SC1623-L5L6 | | | |
| Q403 | 8-729-216-22 | TRANSISTOR 2SA1162-G | | | |
| Q404 | 8-729-901-00 | TRANSISTOR DTC124EK | | | |
| Q405 | 8-729-216-22 | TRANSISTOR 2SA1162-G | | | |
| Q406 | 8-729-027-31 | TRANSISTOR DTA124EKA-T146 | | | |
| Q408 | 8-729-027-31 | TRANSISTOR DTA124EKA-T146 | | | |
| Q409 | 8-729-120-28 | TRANSISTOR 2SC1623-L5L6 | | | |
| Q410 | 8-729-020-07 | TRANSISTOR 2SC4686A(LBSONY) | | | |
| | | <RESISTOR> | | | |
| R101 | 1-215-395-00 | METAL | 82 | 1% | 1/4W |
| R102 | 1-216-025-91 | RES,CHIP | 100 | 5% | 1/10W |
| R103 | 1-215-395-00 | METAL | 82 | 1% | 1/4W |
| R104 | 1-216-025-91 | RES,CHIP | 100 | 5% | 1/10W |
| R105 | 1-216-017-91 | RES,CHIP | 47 | 5% | 1/10W |
| R106 | 1-216-017-91 | RES,CHIP | 47 | 5% | 1/10W |
| R108 | 1-216-099-00 | RES,CHIP | 120K | 5% | 1/10W |
| R109 | 1-216-107-00 | RES,CHIP | 270K | 5% | 1/10W |
| R110 | 1-216-295-91 | SHORT | 0 | | |
| R111 | 1-216-057-00 | RES,CHIP | 2.2K | 5% | 1/10W |
| R112 | 1-216-617-11 | METAL CHIP | 39 | 0.50% | 1/10W |
| R113 | 1-216-009-00 | RES,CHIP | 22 | 5% | 1/10W |
| R114 | 1-216-035-00 | RES,CHIP | 270 | 5% | 1/10W |
| R115 | 1-216-035-00 | RES,CHIP | 270 | 5% | 1/10W |
| R116 | 1-216-017-91 | RES,CHIP | 47 | 5% | 1/10W |
| R117 | 1-216-063-91 | RES,CHIP | 3.9K | 5% | 1/10W |
| R118 | 1-216-057-00 | RES,CHIP | 2.2K | 5% | 1/10W |
| R119 | 1-216-009-00 | RES,CHIP | 22 | 5% | 1/10W |
| R120 | 1-216-097-91 | RES,CHIP | 100K | 5% | 1/10W |
| R121 | 1-216-097-91 | RES,CHIP | 100K | 5% | 1/10W |
| R122 | 1-216-027-00 | RES,CHIP | 120 | 5% | 1/10W |
| R123 | 1-216-027-00 | RES,CHIP | 120 | 5% | 1/10W |
| R124 | 1-219-497-11 | CARBON | 22 | 5% | 1/2W |
| R125 | 1-216-693-11 | METAL CHIP | 56K | 0.50% | 1/10W |
| R126 | 1-216-097-91 | RES,CHIP | 100K | 5% | 1/10W |
| R127 | 1-216-035-00 | RES,CHIP | 270 | 5% | 1/10W |
| R128 | 1-216-121-91 | RES,CHIP | 1M | 5% | 1/10W |
| R129 | 1-218-776-11 | METAL CHIP | 1M | 0.50% | 1/10W |
| R130 | 1-216-097-91 | RES,CHIP | 100K | 5% | 1/10W |
| R131 | 1-216-057-00 | RES,CHIP | 2.2K | 5% | 1/10W |
| R132 | 1-216-035-00 | RES,CHIP | 270 | 5% | 1/10W |
| R133 | 1-216-049-91 | RES,CHIP | 1K | 5% | 1/10W |
| R134 | 1-216-097-91 | RES,CHIP | 100K | 5% | 1/10W |
| R135 | 1-216-037-00 | RES,CHIP | 330 | 5% | 1/10W |
| R136 | 1-216-097-91 | RES,CHIP | 100K | 5% | 1/10W |
| R137 | 1-216-097-91 | RES,CHIP | 100K | 5% | 1/10W |
| R139 | 1-216-073-00 | RES,CHIP | 10K | 5% | 1/10W |
| R140 | 1-216-129-00 | RES,CHIP | 2.2M | 5% | 1/10W |
| R141 | 1-216-025-91 | RES,CHIP | 100 | 5% | 1/10W |
| R144 | 1-216-295-91 | SHORT | 0 | | |
| R167 | 1-216-121-91 | RES,CHIP | 1M | 5% | 1/10W |
| R201 | 1-215-395-00 | METAL | 82 | 1% | 1/4W |
| R202 | 1-216-025-91 | RES,CHIP | 100 | 5% | 1/10W |
| R203 | 1-215-395-00 | METAL | 82 | 1% | 1/4W |
| R204 | 1-216-025-91 | RES,CHIP | 100 | 5% | 1/10W |
| R205 | 1-216-017-91 | RES,CHIP | 47 | 5% | 1/10W |
| R206 | 1-216-017-91 | RES,CHIP | 47 | 5% | 1/10W |
| R208 | 1-216-099-00 | RES,CHIP | 120K | 5% | 1/10W |
| R209 | 1-216-107-00 | RES,CHIP | 270K | 5% | 1/10W |
| R210 | 1-216-295-91 | SHORT | 0 | | |
| R211 | 1-216-057-00 | RES,CHIP | 2.2K | 5% | 1/10W |
| R212 | 1-216-621-11 | METAL CHIP | 56 | 0.50% | 1/10W |
| R213 | 1-216-009-00 | RES,CHIP | 22 | 5% | 1/10W |
| R214 | 1-216-035-00 | RES,CHIP | 270 | 5% | 1/10W |
| R215 | 1-216-035-00 | RES,CHIP | 270 | 5% | 1/10W |
| R216 | 1-216-017-91 | RES,CHIP | 47 | 5% | 1/10W |
| R217 | 1-216-063-91 | RES,CHIP | 3.9K | 5% | 1/10W |
| R218 | 1-216-057-00 | RES,CHIP | 2.2K | 5% | 1/10W |
| R219 | 1-216-009-00 | RES,CHIP | 22 | 5% | 1/10W |
| R220 | 1-216-097-91 | RES,CHIP | 100K | 5% | 1/10W |
| R221 | 1-216-097-91 | RES,CHIP | 100K | 5% | 1/10W |
| R222 | 1-216-027-00 | RES,CHIP | 120 | 5% | 1/10W |
| R223 | 1-216-027-00 | RES,CHIP | 120 | 5% | 1/10W |
| R224 | 1-219-497-11 | CARBON | 22 | 5% | 1/2W |
| R225 | 1-216-693-11 | METAL CHIP | 56K | 0.50% | 1/10W |
| R226 | 1-216-097-91 | RES,CHIP | 100K | 5% | 1/10W |
| R227 | 1-216-035-00 | RES,CHIP | 270 | 5% | 1/10W |
| R228 | 1-216-121-91 | RES,CHIP | 1M | 5% | 1/10W |
| R229 | 1-218-776-11 | METAL CHIP | 1M | 0.50% | 1/10W |
| R230 | 1-216-097-91 | RES,CHIP | 100K | 5% | 1/10W |
| R231 | 1-216-057-00 | RES,CHIP | 2.2K | 5% | 1/10W |
| R232 | 1-216-035-00 | RES,CHIP | 270 | 5% | 1/10W |
| R233 | 1-216-049-91 | RES,CHIP | 1K | 5% | 1/10W |
| R234 | 1-216-097-91 | RES,CHIP | 100K | 5% | 1/10W |
| R235 | 1-216-037-00 | RES,CHIP | 330 | 5% | 1/10W |
| R236 | 1-216-097-91 | RES,CHIP | 100K | 5% | 1/10W |
| R237 | 1-216-097-91 | RES,CHIP | 100K | 5% | 1/10W |
| R239 | 1-216-073-00 | RES,CHIP | 10K | 5% | 1/10W |
| R240 | 1-216-129-00 | RES,CHIP | 2.2M | 5% | 1/10W |

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| REF.NO. | PART NO. | DESCRIPTION | | | REMARK |
|---|---|---|---|---|---|
| R241 | 1-216-025-91 | RES,CHIP | 100 | 5% | 1/10W |
| R243 | 1-216-043-91 | RES,CHIP | 560 | 5% | 1/10W |
| R244 | 1-216-295-91 | SHORT | 0 | | |
| R267 | 1-216-121-91 | RES,CHIP | 1M | 5% | 1/10W |
| R301 | 1-215-395-00 | METAL | 82 | 1% | 1/4W |
| R302 | 1-216-025-91 | RES,CHIP | 100 | 5% | 1/10W |
| R303 | 1-215-395-00 | METAL | 82 | 1% | 1/4W |
| R304 | 1-216-025-91 | RES,CHIP | 100 | 5% | 1/10W |
| R305 | 1-216-017-91 | RES,CHIP | 47 | 5% | 1/10W |
| R306 | 1-216-017-91 | RES,CHIP | 47 | 5% | 1/10W |
| R308 | 1-216-099-00 | RES,CHIP | 120K | 5% | 1/10W |
| R309 | 1-216-107-00 | RES,CHIP | 270K | 5% | 1/10W |
| R310 | 1-216-295-91 | SHORT | 0 | | |
| R311 | 1-216-057-00 | RES,CHIP | 2.2K | 5% | 1/10W |
| R312 | 1-216-623-11 | METAL CHIP | 68 | 0.50% | 1/10W |
| R313 | 1-216-009-00 | RES,CHIP | 22 | 5% | 1/10W |
| R314 | 1-216-035-00 | RES,CHIP | 270 | 5% | 1/10W |
| R315 | 1-216-035-00 | RES,CHIP | 270 | 5% | 1/10W |
| R316 | 1-216-017-91 | RES,CHIP | 47 | 5% | 1/10W |
| R317 | 1-216-063-91 | RES,CHIP | 3.9K | 5% | 1/10W |
| R318 | 1-216-057-00 | RES,CHIP | 2.2K | 5% | 1/10W |
| R319 | 1-216-009-00 | RES,CHIP | 22 | 5% | 1/10W |
| R320 | 1-216-097-91 | RES,CHIP | 100K | 5% | 1/10W |
| R321 | 1-216-097-91 | RES,CHIP | 100K | 5% | 1/10W |
| R322 | 1-216-027-00 | RES,CHIP | 120 | 5% | 1/10W |
| R323 | 1-216-027-00 | RES,CHIP | 120 | 5% | 1/10W |
| R324 | 1-219-497-11 | CARBON | 22 | 5% | 1/2W |
| R325 | 1-216-693-11 | METAL CHIP | 56K | 0.50% | 1/10W |
| R326 | 1-216-097-91 | RES,CHIP | 100K | 5% | 1/10W |
| R327 | 1-216-035-00 | RES,CHIP | 270 | 5% | 1/10W |
| R328 | 1-216-121-91 | RES,CHIP | 1M | 5% | 1/10W |
| R329 | 1-218-776-11 | METAL CHIP | 1M | 0.50% | 1/10W |
| R330 | 1-216-097-91 | RES,CHIP | 100K | 5% | 1/10W |
| R331 | 1-216-057-00 | RES,CHIP | 2.2K | 5% | 1/10W |
| R332 | 1-216-035-00 | RES,CHIP | 270 | 5% | 1/10W |
| R333 | 1-216-049-91 | RES,CHIP | 1K | 5% | 1/10W |
| R334 | 1-216-097-91 | RES,CHIP | 100K | 5% | 1/10W |
| R335 | 1-216-037-00 | RES,CHIP | 330 | 5% | 1/10W |
| R336 | 1-216-097-91 | RES,CHIP | 100K | 5% | 1/10W |
| R337 | 1-216-097-91 | RES,CHIP | 100K | 5% | 1/10W |
| R339 | 1-216-073-00 | RES,CHIP | 10K | 5% | 1/10W |
| R340 | 1-216-129-00 | RES,CHIP | 2.2M | 5% | 1/10W |
| R341 | 1-216-025-91 | RES,CHIP | 100 | 5% | 1/10W |
| R344 | 1-216-295-91 | SHORT | 0 | | |
| R367 | 1-216-121-91 | RES,CHIP | 1M | 5% | 1/10W |
| R406 | 1-216-049-91 | RES,CHIP | 1K | 5% | 1/10W |
| R407 | 1-216-089-91 | RES,CHIP | 47K | 5% | 1/10W |
| R408 | 1-216-097-91 | RES,CHIP | 100K | 5% | 1/10W |
| R409 | 1-216-049-91 | RES,CHIP | 1K | 5% | 1/10W |
| R410 | 1-216-049-91 | RES,CHIP | 1K | 5% | 1/10W |
| R411 | 1-216-065-00 | RES,CHIP | 4.7K | 5% | 1/10W |
| R412 | 1-216-053-00 | RES,CHIP | 1.5K | 5% | 1/10W |
| R413 | 1-216-065-00 | RES,CHIP | 4.7K | 5% | 1/10W |
| R415 | 1-216-065-00 | RES,CHIP | 4.7K | 5% | 1/10W |
| R416 | 1-216-049-91 | RES,CHIP | 1K | 5% | 1/10W |
| R417 | 1-216-089-91 | RES,CHIP | 47K | 5% | 1/10W |
| R418 | 1-260-127-11 | CARBON | 220K | 5% | 1/2W |
| R419 | 1-216-687-11 | METAL CHIP | 33K | 0.50% | 1/10W |
| R420 | 1-216-691-11 | METAL CHIP | 47K | 0.50% | 1/10W |
| R421 | 1-216-103-00 | RES,CHIP | 180K | 5% | 1/10W |
| R422 | 1-216-025-91 | RES,CHIP | 100 | 5% | 1/10W |
| R423 | 1-216-089-91 | RES,CHIP | 47K | 5% | 1/10W |
| R424 | 1-216-025-91 | RES,CHIP | 100 | 5% | 1/10W |
| R425 | 1-216-017-91 | RES,CHIP | 47 | 5% | 1/10W |
| R426 | 1-216-025-91 | RES,CHIP | 100 | 5% | 1/10W |
| R427 | 1-216-025-91 | RES,CHIP | 100 | 5% | 1/10W |
| R428 | 1-216-049-91 | RES,CHIP | 1K | 5% | 1/10W |
| R429 | 1-216-025-91 | RES,CHIP | 100 | 5% | 1/10W |
| R430 | 1-216-025-91 | RES,CHIP | 100 | 5% | 1/10W |
| R431 | 1-216-025-91 | RES,CHIP | 100 | 5% | 1/10W |
| R432 | 1-216-025-91 | RES,CHIP | 100 | 5% | 1/10W |
| R433 | 1-216-025-91 | RES,CHIP | 100 | 5% | 1/10W |
| R434 | 1-216-065-00 | RES,CHIP | 4.7K | 5% | 1/10W |
| R435 | 1-216-121-91 | RES,CHIP | 1M | 5% | 1/10W |
| R436 | 1-216-067-00 | RES,CHIP | 5.6K | 5% | 1/10W |
| R438 | 1-216-053-00 | RES,CHIP | 1.5K | 5% | 1/10W |
| R439 | 1-216-053-00 | RES,CHIP | 1.5K | 5% | 1/10W |
| R440 | 1-216-079-00 | RES,CHIP | 18K | 5% | 1/10W |
| R441 | 1-216-025-91 | RES,CHIP | 100 | 5% | 1/10W |
| R442 | 1-216-659-11 | METAL CHIP | 2.2K | 0.50% | 1/10W |
| R443 | 1-216-041-00 | RES,CHIP | 470 | 5% | 1/10W |
| R444 | 1-216-057-00 | RES,CHIP | 2.2K | 5% | 1/10W |
| R446 | 1-216-025-91 | RES,CHIP | 100 | 5% | 1/10W |
| R451 | 1-216-025-91 | RES,CHIP | 100 | 5% | 1/10W |
| R452 | 1-216-065-00 | RES,CHIP | 4.7K | 5% | 1/10W |
| R453 | 1-216-073-00 | RES,CHIP | 10K | 5% | 1/10W |
| R454 | 1-216-073-00 | RES,CHIP | 10K | 5% | 1/10W |
| R456 | 1-216-089-91 | RES,CHIP | 47K | 5% | 1/10W |
| R457 | 1-219-720-11 | METAL | 10M | 5% | 1W |
| R458 | 1-211-885-21 | METAL | 2.2M | 5% | 1W |
| R459 | 1-219-720-11 | METAL | 10M | 5% | 1W |
| R461 | 1-249-441-11 | CARBON | 100K | 5% | 1/4W |
| R462 | 1-216-089-91 | RES,CHIP | 47K | 5% | 1/10W |
| R463 | 1-216-099-00 | RES,CHIP | 120K | 5% | 1/10W |
| R464 | 1-216-057-00 | RES,CHIP | 2.2K | 5% | 1/10W |
| R466 | 1-216-675-11 | METAL CHIP | 10K | 0.50% | 1/10W |
| R470 | 1-216-065-00 | RES,CHIP | 4.7K | 5% | 1/10W |
| R471 | 1-216-069-00 | RES,CHIP | 6.8K | 5% | 1/10W |
| R473 | 1-216-073-00 | RES,CHIP | 10K | 5% | 1/10W |
| R475 | 1-216-073-00 | RES,CHIP | 10K | 5% | 1/10W |
| R477 | 1-216-081-00 | RES,CHIP | 22K | 5% | 1/10W |
| R478 | 1-249-381-11 | CARBON | 1 | 5% | 1/4W F |
| R479 | 1-249-381-11 | CARBON | 1 | 5% | 1/4W F |
| R480 | 1-249-381-11 | CARBON | 1 | 5% | 1/4W F |

<SPARK GAP>

| | | | |
|---|---|---|---|
| SG101 | 1-517-499-21 | GAP, SPARK | |
| SG201 | 1-517-499-21 | GAP, SPARK | |
| SG301 | 1-517-499-21 | GAP, SPARK | |

A GA G

Les composants identifiés per un tramé et une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une piéce portant le numéro spécifié.

The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

| REF.NO. | PART NO. | DESCRIPTION | | | REMARK |
|---|---|---|---|---|---|
| SG401 | 1-519-526-11 | LAMP, NEON | | | |
| SG402 | 1-519-422-11 | GAP, SPARK | | | |
| | | <SOCKET> | | | |
| SK401⚠ | 1-251-640-11 | SOCKET, PICTURE TUBE | | | |
| ********** | | | | | |
| * | 8-933-269-00 | GA BOARD, COMPLETE | | | |
| | | ********** | | | |
| | | <CAPACITOR> | | | |
| C7501 | 1-164-232-11 | CERAMIC CHIP | 0.01MF | 10% | 50V |
| C7502 | 1-136-169-00 | FILM | 0.22MF | 5% | 50V |
| C7503 | 1-163-009-11 | CERAMIC CHIP | 0.001MF | 10% | 50V |
| C7504 | 1-136-165-00 | FILM | 0.1MF | 5% | 50V |
| C7505 | 1-164-004-11 | CERAMIC CHIP | 0.1MF | 10% | 25V |
| C7506 | 1-164-004-11 | CERAMIC CHIP | 0.1MF | 10% | 25V |
| | | <CONNECTOR> | | | |
| CN7501* | 1-774-512-11 | CONNECTOR, BPARD TO BOARD 10P | | | |
| | | <DIODE> | | | |
| D7501 | 8-719-110-57 | DIODE RD22ESB2 | | | |
| D7502 | 8-719-911-19 | DIODE 1SS119-25 | | | |
| | | <IC> | | | |
| IC7501 | 8-759-482-62 | IC MC33262P | | | |
| | | <TRANSISTOR> | | | |
| Q7501 | 8-729-026-49 | TRANSISTOR 2SA1037AK-T146-R | | | |
| Q7502 | 8-729-120-28 | TRANSISTOR 2SC1623-L5L6 | | | |
| Q7503 | 8-729-120-28 | TRANSISTOR 2SC1623-L5L6 | | | |
| Q7504 | 8-729-026-49 | TRANSISTOR 2SA1037AK-T146-R | | | |
| | | <RESISTOR> | | | |
| R7501 | 1-216-025-91 | RES,CHIP | 100 | 5% | 1/10W |
| R7502 | 1-216-073-00 | RES,CHIP | 10K | 5% | 1/10W |
| R7503 | 1-216-041-00 | RES,CHIP | 470 | 5% | 1/10W |
| R7504 | 1-216-675-11 | METAL CHIP | 10K | 0.50% | 1/10W |
| R7505 | 1-216-673-11 | METAL CHIP | 8.2K | 0.50% | 1/10W |
| R7506 | 1-216-073-00 | RES,CHIP | 10K | 5% | 1/10W |
| R7507 | 1-216-089-91 | RES,CHIP | 47K | 5% | 1/10W |
| R7508 | 1-216-073-00 | RES,CHIP | 10K | 5% | 1/10W |
| R7509 | 1-216-073-00 | RES,CHIP | 10K | 5% | 1/10W |
| R7510 | 1-216-073-00 | RES,CHIP | 10K | 5% | 1/10W |
| R7511 | 1-216-073-00 | RES,CHIP | 10K | 5% | 1/10W |
| R7512 | 1-216-089-91 | RES,CHIP | 47K | 5% | 1/10W |
| R7513 | 1-216-093-00 | RES,CHIP | 68K | 5% | 1/10W |
| ********** | | | | | |
| * | 8-933-277-00 | G BOARD, COMPLETE | | | |
| | | ********** | | | |
| | 4-382-854-01 | SCREW (M3X8), P, SW (+) (IC660) | | | |
| | 4-382-854-11 | SCREW (M3X10), P, SW (+) (Q610, Q640, D610, D611, D672) | | | |
| * | 7-322-065-72 | RUBBER, RTV (SE-9168) (130G) (C671, C682, VDR640) | | | |
| | | <CAPACITOR> | | | |
| C601⚠ | 1-113-900-51 | CERAMIC | 470PF | 10% | 250V |
| C602⚠ | 1-113-900-51 | CERAMIC | 470PF | 10% | 250V |
| C603⚠ | 1-107-533-51 | FILM | 1MF | 20% | 250V |
| C604⚠ | 1-107-533-51 | FILM | 1MF | 20% | 250V |
| C605⚠ | 1-113-926-91 | CERAMIC | 0.0047MF | | 250V |
| C606⚠ | 1-113-926-91 | CERAMIC | 0.0047MF | | 250V |
| C607 | 1-113-900-11 | CERAMIC | 470PF | 10% | 250V |
| C610 | 1-137-479-11 | FILM | 1MF | 10% | 400V |
| C611 | 1-117-849-11 | ELECT | 330MF | 20% | 450V |
| C612 | 1-126-959-11 | ELECT | 0.47MF | 20% | 50V |
| C616 | 1-107-888-11 | ELECT | 47MF | 20% | 25V |
| C640 | 1-165-127-11 | CERAMIC | 470PF | 10% | 500V |
| C641 | 1-165-127-11 | CERAMIC | 470PF | 10% | 500V |
| C642 | 1-136-171-00 | FILM | 0.33MF | 5% | 50V |
| C643 | 1-136-171-00 | FILM | 0.33MF | 5% | 50V |
| C644 | 1-165-127-11 | CERAMIC | 470PF | 10% | 500V |
| C645 | 1-136-167-00 | FILM | 0.15MF | 5% | 50V |
| C646 | 1-136-167-00 | FILM | 0.15MF | 5% | 50V |
| C647 | 1-129-719-00 | FILM | 0.027MF | 5% | 630V |
| C660 | 1-111-057-11 | ELECT | 120MF | 20% | 25V |
| C661 | 1-128-526-11 | ELECT | 100MF | 20% | 16V |
| C662 | 1-137-399-11 | FILM | 0.1MF | 5% | 50V |
| C663 | 1-126-965-11 | ELECT | 22MF | 20% | 50V |
| C670 | 1-137-370-11 | FILM | 0.01MF | 5% | 50V |
| C671 | 1-107-966-51 | ELECT | 220MF | 20% | 250V |
| C672 | 1-107-959-11 | ELECT | 3.3MF | 20% | 250V |
| C673 | 1-107-935-11 | ELECT | 330MF | 20% | 100V |
| C674 | 1-107-928-11 | ELECT | 4.7MF | 20% | 100V |
| C675 | 1-107-890-11 | ELECT | 2200MF | 20% | 25V |
| C676 | 1-107-888-11 | ELECT | 47MF | 20% | 25V |
| C677 | 1-107-890-11 | ELECT | 2200MF | 20% | 25V |
| C678 | 1-107-888-11 | ELECT | 47MF | 20% | 25V |
| C679 | 1-126-927-11 | ELECT | 2200MF | 20% | 10V |
| C680 | 1-126-927-11 | ELECT | 2200MF | 20% | 10V |
| C681 | 1-107-905-11 | ELECT | 4.7MF | 20% | 50V |
| C682 | 1-126-963-11 | ELECT | 4.7MF | 20% | 50V |
| C683 | 1-164-646-11 | CERAMIC | 2200PF | 10% | 500V |
| C684 | 1-137-370-11 | FILM | 0.01MF | 5% | 50V |
| C685 | 1-107-909-11 | ELECT | 47MF | 20% | 50V |
| C690 | 1-107-888-11 | ELECT | 47MF | 20% | 25V |

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G

| REF.NO. | PART NO. | DESCRIPTION | | | | REMARK |
|---|---|---|---|---|---|---|
| C691 | 1-107-888-11 | ELECT | 47MF | 20% | 25V | |
| C692 | 1-111-016-11 | ELECT | 0.0012F | 20% | 10V | |
| C693 | 1-137-399-11 | FILM | 0.1MF | 5% | 50V | |
| C695 | 1-164-644-11 | CERAMIC | 330PF | 10% | 500V | |
| C697 | 1-136-165-00 | FILM | 0.1MF | 5% | 50V | |
| | | <CONNECTOR> | | | | |
| CN603* | 1-580-689-11 | PIN, CONNECTOR (PC BOARD) 4P | | | | |
| CN604 | 1-691-960-11 | PIN, CONNECTOR (PC BOARD) 3P | | | | |
| CN605 | 1-691-960-11 | PIN, CONNECTOR (PC BOARD) 3P | | | | |
| CN610* | 1-774-511-11 | CONNECTOR, BOARD TO BOARD 10P | | | | |
| CN671* | 1-564-514-11 | PLUG, CONNECTOR 11P | | | | |
| CN672* | 1-564-512-11 | PLUG, CONNECTOR 9P | | | | |
| CN673* | 1-564-508-11 | PLUG, CONNECTOR 5P | | | | |
| | | <DIODE> | | | | |
| D610 ⚠ | 8-719-510-53 | DIODE D4SB60L | | | | |
| D611 | 8-719-029-04 | DIODE D5L60 | | | | |
| D612 | 8-719-304-63 | DIODE RM11C | | | | |
| D613 | 8-719-110-49 | DIODE RD18ESB2 | | | | |
| D614 | 8-719-977-28 | DIODE DTZ10B | | | | |
| D617 | 8-719-404-49 | DIODE MA111 | | | | |
| D640 | 8-719-404-49 | DIODE MA111 | | | | |
| D660 | 8-719-059-23 | DIODE P6KE200AG23 | | | | |
| D661 | 8-719-979-64 | DIODE UF4005PKG23 | | | | |
| D662 | 8-719-058-91 | DIODE AG01A-V0 | | | | |
| D663 | 8-719-110-31 | DIODE RD12ESB2 | | | | |
| D666 | 8-719-105-99 | DIODE RD6.2M-B1 | | | | |
| D670 | 8-719-064-49 | DIODE D4SBL40 | | | | |
| D671 | 8-719-510-64 | DIODE S2LA20F | | | | |
| D672 | 8-719-052-91 | DIODE D4SBS4-F | | | | |
| D673 | 8-719-022-97 | DIODE D2S4MF | | | | |
| D674 | 8-719-022-97 | DIODE D2S4MF | | | | |
| D677 | 8-719-911-19 | DIODE 1SS119-25 | | | | |
| D678 | 8-719-911-19 | DIODE 1SS119-25 | | | | |
| D680 | 8-719-404-49 | DIODE MA111 | | | | |
| D681 | 8-719-404-49 | DIODE MA111 | | | | |
| D682 | 8-719-510-64 | DIODE S2LA20F | | | | |
| D683 | 8-719-911-19 | DIODE 1SS119-25 | | | | |
| D684 | 8-719-110-57 | DIODE RD22ESB2 | | | | |
| D691 | 8-719-510-37 | DIODE D5LC20U | | | | |
| D692 | 8-719-911-19 | DIODE 1SS119-25 | | | | |
| D693 | 8-719-404-49 | DIODE MA111 | | | | |
| | | <FUSE> | | | | |
| F601 ⚠ | 1-576-233-11 | FUSE (H.B.C.) (6.3A/250V) | | | | |
| | 1-533-223-11 | HOLDER, FUSE ;F601 | | | | |
| | | <FERRITE BEAD> | | | | |
| FB610 | 1-410-396-41 | FERRITE | 0.45UH | | | |
| FB611 | 1-410-396-41 | FERRITE | 0.45UH | | | |
| FB612 | 1-410-396-41 | FERRITE | 0.45UH | | | |

| REF.NO. | PART NO. | DESCRIPTION | | | | REMARK |
|---|---|---|---|---|---|---|
| | | <IC> | | | | |
| IC630 | 8-749-013-03 | IC DM-60 | | | | |
| IC660 | 8-759-470-64 | IC TOP223Y-BB | | | | |
| IC690 | 8-749-011-42 | IC SI-3050F | | | | |
| IC691 | 8-759-140-85 | IC UPC1093J | | | | |
| | | <COIL> | | | | |
| L610 | 1-416-409-11 | INDUCTOR | 0UH | | | |
| L611 | 1-411-674-11 | INDUCTOR | 0UH | | | |
| L670 | 1-412-529-11 | INDUCTOR | 22UH | | | |
| L671 | 1-412-529-11 | INDUCTOR | 22UH | | | |
| L672 | 1-412-529-11 | INDUCTOR | 22UH | | | |
| L673 | 1-412-529-11 | INDUCTOR | 22UH | | | |
| L691 | 1-412-529-11 | INDUCTOR | 22UH | | | |
| | | <PHOTO COUPLER> | | | | |
| PH660 | 8-749-010-64 | PHOTO COUPLER PC123F2 | | | | |
| PH680 | 8-749-010-64 | PHOTO COUPLER PC123F2 | | | | |
| | | <IC LINK> | | | | |
| PS670 ⚠ | 1-533-593-31 | LINK, IC (2A/90V AV, 60V DC) | | | | |
| PS671 ⚠ | 1-533-593-31 | LINK, IC (2A/90V AV, 60V DC) | | | | |
| PS673 ⚠ | 1-533-593-31 | LINK, IC (2A/90V AV, 60V DC) | | | | |
| PS674 ⚠ | 1-533-593-31 | LINK, IC (2A/90V AV, 60V DC) | | | | |
| | | <TRANSISTOR> | | | | |
| Q610 | 8-729-041-65 | TRANSISTOR 2SK2195F04 | | | | |
| Q615 | 8-729-026-49 | TRANSISTOR 2SA1037AK-T146-R | | | | |
| Q640 | 8-729-041-12 | TRANSISTOR MX0841AB-F | | | | |
| Q641 | 8-729-119-76 | TRANSISTOR 2SA1175-HFE | | | | |
| Q642 | 8-729-119-78 | TRANSISTOR 2SC2785-HFE | | | | |
| Q660 | 8-729-119-78 | TRANSISTOR 2SC2785-HFE | | | | |
| Q680 | 8-729-120-28 | TRANSISTOR 2SC1623-L5L6 | | | | |
| Q681 | 8-729-230-45 | TRANSISTOR 2SC2458-YGR | | | | |
| Q682 | 8-729-119-76 | TRANSISTOR 2SA1175-HFE | | | | |
| Q683 | 8-729-119-76 | TRANSISTOR 2SA1175-HFE | | | | |
| Q690 | 8-729-119-78 | TRANSISTOR 2SC2785-HFE | | | | |
| Q691 | 8-729-026-49 | TRANSISTOR 2SA1037AK-T146-R | | | | |
| | | <RESISTOR> | | | | |
| R601 ⚠ | 1-220-825-91 | CARBON | 330K | 5% | 1/2W | |
| R604 | 1-260-089-11 | CARBON | 150 | 5% | 1/2W | |
| R610 | 1-216-383-11 | METAL OXIDE | 0.33 | 5% | 3W | F |
| R611 | 1-216-383-11 | METAL OXIDE | 0.33 | 5% | 3W | F |
| R612 | 1-215-477-00 | METAL | 220K | 1% | 1/4W | |
| R613 | 1-215-477-00 | METAL | 220K | 1% | 1/4W | |
| R614 | 1-215-473-00 | METAL | 150K | 1% | 1/4W | |
| R615 | 1-215-473-00 | METAL | 150K | 1% | 1/4W | |
| R616 | 1-215-473-00 | METAL | 150K | 1% | 1/4W | |
| R617 | 1-215-481-00 | METAL | 330K | 1% | 1/4W | |
| R618 | 1-215-477-00 | METAL | 220K | 1% | 1/4W | |

G D

Les composants identifiés per un tramé et une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une piéce portant le numéro spécifié.

The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

| REF.NO. | PART NO. | DESCRIPTION | | | REMARK |
|---|---|---|---|---|---|
| R619 | 1-215-485-00 | METAL | 470K | 1% | 1/4W |
| R620 | 1-215-485-00 | METAL | 470K | 1% | 1/4W |
| R621 | 1-215-481-00 | METAL | 330K | 1% | 1/4W |
| R622 | 1-216-049-91 | RES,CHIP | 1K | 5% | 1/10W |
| R623 | 1-216-651-11 | METAL CHIP | 1K | 0.50% | 1/10W |
| R624 | 1-216-671-11 | METAL CHIP | 6.8K | 0.50% | 1/10W |
| R625 | 1-249-389-11 | CARBON | 4.7 | 5% | 1/4W |
| R626 | 1-249-429-11 | CARBON | 10K | 5% | 1/4W |
| R627 | 1-215-479-00 | METAL | 270K | 1% | 1/4W |
| R628 | 1-215-481-00 | METAL | 330K | 1% | 1/4W |
| R629 | 1-215-461-00 | METAL | 47K | 1% | 1/4W |
| R631 | 1-247-807-31 | CARBON | 100 | 5% | 1/4W |
| R632 | 1-216-073-00 | RES,CHIP | 10K | 5% | 1/10W |
| R633 | 1-215-481-00 | METAL | 330K | 1% | 1/4W |
| R635 | 1-216-073-00 | RES,CHIP | 10K | 5% | 1/10W |
| R640 | 1-202-933-61 | FUSIBLE | 0.1 | 10% | 1/2W F |
| R641 | 1-218-642-11 | METAL OXIDE | 100K | 5% | 1W F |
| R642 | 1-218-642-11 | METAL OXIDE | 100K | 5% | 1W F |
| R643 | 1-247-863-91 | CARBON | 22K | 5% | 1/4W |
| R644 | 1-216-105-91 | RES,CHIP | 220K | 5% | 1/10W |
| R645 | 1-216-081-00 | RES,CHIP | 22K | 5% | 1/10W |
| R646 | 1-216-073-00 | RES,CHIP | 10K | 5% | 1/10W |
| R647 | 1-249-441-11 | CARBON | 100K | 5% | 1/4W |
| R648 | 1-216-353-00 | METAL OXIDE | 2.2 | 5% | 1W F |
| R649 | 1-218-642-11 | METAL OXIDE | 100K | 5% | 1W F |
| R650 | 1-218-642-11 | METAL OXIDE | 100K | 5% | 1W F |
| R651 | 1-216-353-00 | METAL OXIDE | 2.2 | 5% | 1W F |
| R652 | 1-212-942-00 | FUSIBLE | 2.2 | 5% | 1/2W F |
| R655 | 1-216-073-00 | RES,CHIP | 10K | 5% | 1/10W |
| R661 | 1-249-387-11 | CARBON | 3.3 | 5% | 1/4W F |
| R662 | 1-216-073-00 | RES,CHIP | 10K | 5% | 1/10W |
| R663 | 1-216-073-00 | RES,CHIP | 10K | 5% | 1/10W |
| R664 | 1-247-791-91 | CARBON | 22 | 5% | 1/4W |
| R665 | 1-216-033-00 | RES,CHIP | 220 | 5% | 1/10W |
| R666 | 1-215-441-00 | METAL | 6.8K | 1% | 1/4W |
| R667 | 1-215-433-00 | METAL | 3.3K | 1% | 1/4W |
| R668 | 1-249-401-11 | CARBON | 47 | 5% | 1/4W |
| R669 | 1-216-057-00 | RES,CHIP | 2.2K | 5% | 1/10W |
| R671 | 1-216-113-00 | RES,CHIP | 470K | 5% | 1/10W |
| R672 | 1-216-049-91 | RES,CHIP | 1K | 5% | 1/10W |
| R673 | 1-249-413-11 | CARBON | 470 | 5% | 1/4W F |
| R674 | 1-249-377-11 | CARBON | 0.47 | 5% | 1/4W F |
| R675 | 1-260-292-11 | CARBON | 1 | 5% | 1/2W |
| R676 | 1-249-413-11 | CARBON | 470 | 5% | 1/4W |
| R680 | 1-216-073-00 | RES,CHIP | 10K | 5% | 1/10W |
| R681 | 1-216-049-91 | RES,CHIP | 1K | 5% | 1/10W |
| R682 | 1-216-065-00 | RES,CHIP | 4.7K | 5% | 1/10W |
| R683 | 1-216-025-91 | RES,CHIP | 100 | 5% | 1/10W |
| R685 | 1-216-073-00 | RES,CHIP | 10K | 5% | 1/10W |
| R686 | 1-216-049-91 | RES,CHIP | 1K | 5% | 1/10W |
| R687 | 1-216-049-91 | RES,CHIP | 1K | 5% | 1/10W |
| R688 | 1-216-073-00 | RES,CHIP | 10K | 5% | 1/10W |
| R689 | 1-216-073-00 | RES,CHIP | 10K | 5% | 1/10W |
| R691 | 1-216-073-00 | RES,CHIP | 10K | 5% | 1/10W |
| R692 | 1-260-085-11 | CARBON | 68 | 5% | 1/2W |
| R693 | 1-216-065-00 | RES,CHIP | 4.7K | 5% | 1/10W |
| R694 | 1-216-073-00 | RES,CHIP | 10K | 5% | 1/10W |
| R695 | 1-249-443-11 | CARBON | 0.47 | 5% | 1/4W F |
| R696 | 1-216-633-11 | METAL CHIP | 180 | 0.50% | 1/10W |
| R697 | 1-216-649-11 | METAL CHIP | 820 | 0.50% | 1/10W |
| R698 | 1-216-073-00 | RES,CHIP | 10K | 5% | 1/10W |
| R699 | 1-216-081-00 | RES,CHIP | 22K | 5% | 1/10W |

<RELAY>

| | | | |
|---|---|---|---|
| RY601 | ⚠1-515-669-21 | RELAY | |
| RY602 | ⚠1-755-031-11 | RELAY | |

<TRANSFORMER>

| | | | |
|---|---|---|---|
| T601 | ⚠1-429-180-11 | TRANSFORMER, LINE FILTER | |
| T640 | 1-431-538-11 | TRANSFORMER, CONVERTER (PIT) | |
| T641 | 1-429-992-11 | TRANSFORMER, CONVERTER (PRT) | |
| T660 | 1-431-565-11 | TRANSFORMER, CONVERTER (SRT) | |

<THERMISTOR>

| | | | |
|---|---|---|---|
| TH601 | ⚠1-809-260-11 | THERMISTOR, POWER | |
| THP601 | ⚠1-809-827-11 | THERMISTOR, POSITIVE | |

<VARISTOR>

| | | | |
|---|---|---|---|
| VDR601 | ⚠1-801-268-51 | VARISTOR TNR14V471K660 | |
| VDR602 | ⚠1-810-622-21 | VARISTOR | |
| VDR640 | 1-810-974-21 | VARISTOR TNR10V431K660 | |

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| | | |
|---|---|---|
| * | 8-933-307-00 | D BOARD, COMPLETE |
| | | ********** |
| | 4-040-989-01 | SPRING (A), TR RETAINER (IC702, R511) |
| | 4-040-992-01 | SPRING (AA), TR RETAINER (IC502, Q507) |
| | 4-040-994-01 | SPRING (BB), TR RETAINER (Q508, D519) |
| | 4-047-285-01 | SHEET, INSULATING (Q909) |
| | 4-060-719-02 | SHEET, INSULATE (IC502) |
| | 4-060-720-01 | SHEET, INSULATE (Q508) |
| | 4-060-844-01 | SHEET, INSULATING (IC702) |
| | 4-382-854-01 | SCREW (M3X8), P, SW (+) (R937) |
| | 4-382-854-11 | SCREW (M3X10), P, SW (+) (IC702, Q704, Q706, Q908, Q909, R937) |
| | 7-685-647-79 | SCREW +BVTP 3X10 TYPE2 IT-3 (IC502, Q507, Q508, D519, R511) |

<CAPACITOR>

| | | | | | |
|---|---|---|---|---|---|
| C001 | 1-164-232-11 | CERAMIC CHIP | 0.01MF | 10% | 50V |
| C002 | 1-163-009-11 | CERAMIC CHIP | 0.001MF | 10% | 50V |
| C003 | 1-163-019-00 | CERAMIC CHIP | 0.0068MF | 10% | 50V |
| C004 | 1-164-232-11 | CERAMIC CHIP | 0.01MF | 10% | 50V |
| C005 | 1-164-232-11 | CERAMIC CHIP | 0.01MF | 10% | 50V |

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| REF.NO. | PART NO. | DESCRIPTION | | | REMARK |
|---|---|---|---|---|---|
| C006 | 1-126-960-11 | ELECT | 1MF | 20% | 50V |
| C007 | 1-164-232-11 | CERAMIC CHIP | 0.01MF | 10% | 50V |
| C008 | 1-164-004-11 | CERAMIC CHIP | 0.1MF | 10% | 25V |
| C009 | 1-164-004-11 | CERAMIC CHIP | 0.1MF | 10% | 25V |
| C010 | 1-163-237-11 | CERAMIC CHIP | 27PF | 5% | 50V |
| C011 | 1-163-237-11 | CERAMIC CHIP | 27PF | 5% | 50V |
| C012 | 1-164-004-11 | CERAMIC CHIP | 0.1MF | 10% | 25V |
| C013 | 1-126-967-11 | ELECT | 47MF | 20% | 50V |
| C014 | 1-107-914-11 | ELECT | 1000MF | 20% | 25V |
| C015 | 1-107-914-11 | ELECT | 1000MF | 20% | 25V |
| C016 | 1-163-009-11 | CERAMIC CHIP | 0.001MF | 10% | 50V |
| C017 | 1-164-004-11 | CERAMIC CHIP | 0.1MF | 10% | 25V |
| C018 | 1-164-004-11 | CERAMIC CHIP | 0.1MF | 10% | 25V |
| C019 | 1-126-967-11 | ELECT | 47MF | 20% | 50V |
| C020 | 1-164-232-11 | CERAMIC CHIP | 0.01MF | 10% | 50V |
| C021 | 1-163-023-00 | CERAMIC CHIP | 0.015MF | 10% | 50V |
| C022 | 1-126-933-11 | ELECT | 100MF | 20% | 16V |
| C023 | 1-163-009-11 | CERAMIC CHIP | 0.001MF | 10% | 50V |
| C024 | 1-164-232-11 | CERAMIC CHIP | 0.01MF | 10% | 50V |
| C025 | 1-126-960-11 | ELECT | 1MF | 20% | 50V |
| C026 | 1-137-372-11 | FILM | 0.022MF | 5% | 50V |
| C027 | 1-164-004-11 | CERAMIC CHIP | 0.1MF | 10% | 25V |
| C028 | 1-164-695-11 | CERAMIC CHIP | 0.0022MF | 5% | 50V |
| C029 | 1-126-960-11 | ELECT | 1MF | 20% | 50V |
| C030 | 1-164-004-11 | CERAMIC CHIP | 0.1MF | 10% | 25V |
| C031 | 1-164-232-11 | CERAMIC CHIP | 0.01MF | 10% | 50V |
| C032 | 1-163-019-00 | CERAMIC CHIP | 0.0068MF | 10% | 50V |
| C034 | 1-164-232-11 | CERAMIC CHIP | 0.01MF | 10% | 50V |
| C035 | 1-163-253-11 | CERAMIC CHIP | 120PF | 5% | 50V |
| C036 | 1-164-004-11 | CERAMIC CHIP | 0.1MF | 10% | 25V |
| C037 | 1-126-934-11 | ELECT | 220MF | 20% | 16V |
| C038 | 1-164-004-11 | CERAMIC CHIP | 0.1MF | 10% | 25V |
| C039 | 1-126-964-11 | ELECT | 10MF | 20% | 50V |
| C040 | 1-126-963-11 | ELECT | 4.7MF | 20% | 50V |
| C041 | 1-126-960-11 | ELECT | 1MF | 20% | 50V |
| C042 | 1-126-967-11 | ELECT | 47MF | 20% | 50V |
| C043 | 1-126-967-11 | ELECT | 47MF | 20% | 50V |
| C044 | 1-126-967-11 | ELECT | 47MF | 20% | 50V |
| C045 | 1-163-137-00 | CERAMIC CHIP | 680PF | 5% | 50V |
| C046 | 1-164-004-11 | CERAMIC CHIP | 0.1MF | 10% | 25V |
| C047 | 1-126-934-11 | ELECT | 220MF | 20% | 16V |
| C048 | 1-164-695-11 | CERAMIC CHIP | 0.0022MF | 5% | 50V |
| C049 | 1-163-137-00 | CERAMIC CHIP | 680PF | 5% | 50V |
| C050 | 1-163-809-11 | CERAMIC CHIP | 0.047MF | 10% | 25V |
| C051 | 1-126-960-11 | ELECT | 1MF | 20% | 50V |
| C052 | 1-163-809-11 | CERAMIC CHIP | 0.047MF | 10% | 25V |
| C054 | 1-126-963-11 | ELECT | 4.7MF | 20% | 50V |
| C055 | 1-126-963-11 | ELECT | 4.7MF | 20% | 50V |
| C056 | 1-163-809-11 | CERAMIC CHIP | 0.047MF | 10% | 25V |
| C057 | 1-107-909-11 | ELECT | 47MF | 20% | 50V |
| C058 | 1-126-934-11 | ELECT | 220MF | 20% | 16V |
| C059 | 1-164-232-11 | CERAMIC CHIP | 0.01MF | 10% | 50V |
| C060 | 1-126-964-11 | ELECT | 10MF | 20% | 50V |
| C061 | 1-164-232-11 | CERAMIC CHIP | 0.01MF | 10% | 50V |
| C063 | 1-137-399-11 | FILM | 0.1MF | 5% | 50V |
| C065 | 1-126-965-11 | ELECT | 22MF | 20% | 50V |
| C066 | 1-164-232-11 | CERAMIC CHIP | 0.01MF | 10% | 50V |
| C067 | 1-163-243-11 | CERAMIC CHIP | 47PF | 5% | 50V |
| C068 | 1-126-964-11 | ELECT | 10MF | 20% | 50V |
| C069 | 1-164-232-11 | CERAMIC CHIP | 0.01MF | 10% | 50V |
| C070 | 1-164-232-11 | CERAMIC CHIP | 0.01MF | 10% | 50V |
| C072 | 1-126-960-11 | ELECT | 1MF | 20% | 50V |
| C073 | 1-163-222-11 | CERAMIC CHIP | 5PF | 0.25PF | 50V |
| C074 | 1-163-009-11 | CERAMIC CHIP | 0.001MF | 10% | 50V |
| C075 | 1-164-232-11 | CERAMIC CHIP | 0.01MF | 10% | 50V |
| C076 | 1-163-809-11 | CERAMIC CHIP | 0.047MF | 10% | 25V |
| C077 | 1-164-004-11 | CERAMIC CHIP | 0.1MF | 10% | 25V |
| C078 | 1-164-004-11 | CERAMIC CHIP | 0.1MF | 10% | 25V |
| C079 | 1-126-967-11 | ELECT | 47MF | 20% | 50V |
| C080 | 1-126-967-11 | ELECT | 47MF | 20% | 50V |
| C081 | 1-164-232-11 | CERAMIC CHIP | 0.01MF | 10% | 50V |
| C082 | 1-126-964-11 | ELECT | 10MF | 20% | 50V |
| C083 | 1-137-399-11 | FILM | 0.1MF | 5% | 50V |
| C084 | 1-164-004-11 | CERAMIC CHIP | 0.1MF | 10% | 25V |
| C085 | 1-137-399-11 | FILM | 0.1MF | 5% | 50V |
| C086 | 1-126-964-11 | ELECT | 10MF | 20% | 50V |
| C087 | 1-164-004-11 | CERAMIC CHIP | 0.1MF | 10% | 25V |
| C090 | 1-109-982-11 | CERAMIC CHIP | 1MF | 10% | 10V |
| C092 | 1-164-232-11 | CERAMIC CHIP | 0.01MF | 10% | 50V |
| C093 | 1-126-964-11 | ELECT | 10MF | 20% | 50V |
| C094 | 1-164-232-11 | CERAMIC CHIP | 0.01MF | 10% | 50V |
| C095 | 1-164-232-11 | CERAMIC CHIP | 0.01MF | 10% | 50V |
| C096 | 1-164-232-11 | CERAMIC CHIP | 0.01MF | 10% | 50V |
| C097 | 1-164-232-11 | CERAMIC CHIP | 0.01MF | 10% | 50V |
| C098 | 1-164-232-11 | CERAMIC CHIP | 0.01MF | 10% | 50V |
| C099 | 1-164-004-11 | CERAMIC CHIP | 0.1MF | 10% | 25V |
| C501 | 1-107-909-11 | ELECT | 47MF | 20% | 50V |
| C502 | 1-163-259-91 | CERAMIC CHIP | 220PF | 5% | 50V |
| C503 | 1-136-169-00 | FILM | 0.22MF | 5% | 50V |
| C504 | 1-137-605-11 | FILM | 0.01MF | 10% | 250V |
| C505 | 1-163-251-11 | CERAMIC CHIP | 100PF | 5% | 50V |
| C506 | 1-136-169-00 | FILM | 0.22MF | 5% | 50V |
| C507 | 1-136-173-00 | FILM | 0.47MF | 5% | 50V |
| C508 | 1-163-037-11 | CERAMIC CHIP | 0.022MF | 10% | 50V |
| C509 | 1-126-941-11 | ELECT | 470MF | 20% | 25V |
| C510 | 1-137-368-11 | FILM | 0.0047MF | 5% | 50V |
| C511 | 1-117-398-11 | ELECT | 33MF | 20% | 250V |
| C512 | 1-107-889-11 | ELECT | 220MF | 20% | 25V |
| C513 | 1-163-017-00 | CERAMIC CHIP | 0.0047MF | 10% | 50V |
| C514 | 1-164-232-11 | CERAMIC CHIP | 0.01MF | 10% | 50V |
| C515 | 1-107-889-11 | ELECT | 220MF | 20% | 25V |
| C516 | 1-137-399-11 | FILM | 0.1MF | 5% | 50V |
| C517 | 1-104-574-11 | CERAMIC | 0.0047MF | 10% | 2KV |
| C518 | 1-117-959-11 | FILM | 4700PF | 3% | 1.8KV |
| C519 | 1-107-444-11 | CERAMIC | 100PF | 5% | 2KV |
| C520 | 1-136-553-11 | FILM | 0.0015MF | 5% | 630V |
| C521 | 1-107-597-11 | CERAMIC | 22PF | 5% | 500V |
| C522 | 1-107-444-11 | CERAMIC | 100PF | 5% | 2KV |
| C523 | 1-137-370-11 | FILM | 0.01MF | 5% | 50V |
| C524 | 1-113-694-11 | FILM | 0.056MF | 5% | 250V |
| C525 | 1-107-846-11 | FILM | 0.1MF | 5% | 250V |
| C526 | 1-115-514-11 | FILM | 0.22MF | 5% | 250V |

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| REF.NO. | PART NO. | DESCRIPTION | | | REMARK |
|---|---|---|---|---|---|
| C527 | 1-115-517-11 | FILM | 0.39MF | 5% | 250V |
| C528 | 1-115-521-11 | FILM | 0.82MF | 5% | 250V |
| C529 | 1-107-683-11 | ELECT | 2.2MF | 0 | 250V |
| C530 | 1-164-232-11 | CERAMIC CHIP | 0.01MF | 10% | 50V |
| C531 | 1-164-232-11 | CERAMIC CHIP | 0.01MF | 10% | 50V |
| C532 | 1-164-232-11 | CERAMIC CHIP | 0.01MF | 10% | 50V |
| C533 | 1-164-232-11 | CERAMIC CHIP | 0.01MF | 10% | 50V |
| C534 | 1-164-232-11 | CERAMIC CHIP | 0.01MF | 10% | 50V |
| C535 | 1-164-232-11 | CERAMIC CHIP | 0.01MF | 10% | 50V |
| C536 | 1-128-526-11 | ELECT | 100MF | 20% | 25V |
| C537 | 1-115-523-21 | FILM | 1.2MF | 5% | 250V |
| C538 | 1-117-958-11 | FILM | 0.24MF | 5% | 400V |
| C539 | 1-107-960-11 | ELECT | 4.7MF | 20% | 250V |
| C540 | 1-106-343-00 | MYLAR | 0.001MF | 10% | 200V |
| C541 | 1-163-243-11 | CERAMIC CHIP | 47PF | 5% | 50V |
| C542 | 1-163-243-11 | CERAMIC CHIP | 47PF | 5% | 50V |
| C544 | 1-137-368-11 | FILM | 0.0047MF | 5% | 50V |
| C545 | 1-126-967-11 | ELECT | 47MF | 20% | 50V |
| C547 | 1-126-967-11 | ELECT | 47MF | 20% | 50V |
| C549 | 1-164-232-11 | CERAMIC CHIP | 0.01MF | 10% | 50V |
| C550 | 1-164-232-11 | CERAMIC CHIP | 0.01MF | 10% | 50V |
| C551 | 1-163-009-11 | CERAMIC CHIP | 0.001MF | 10% | 50V |
| C553 | 1-126-963-11 | ELECT | 4.7MF | 20% | 50V |
| C554 | 1-163-037-11 | CERAMIC CHIP | 0.022MF | 10% | 50V |
| C555 | 1-163-037-11 | CERAMIC CHIP | 0.022MF | 10% | 50V |
| C556 | 1-163-009-11 | CERAMIC CHIP | 0.001MF | 10% | 50V |
| C557 | 1-115-185-11 | CERAMIC CHIP | 0.033MF | 10% | 50V |
| C559 | 1-162-134-11 | CERAMIC | 470PF | 10% | 2KV |
| C561 | 1-136-173-00 | FILM | 0.47MF | 5% | 50V |
| C562 | 1-164-232-11 | CERAMIC CHIP | 0.01MF | 10% | 50V |
| C563 | 1-117-214-11 | CERAMIC | 0.001MF | 10% | 2KV |
| C564 | 1-126-963-11 | ELECT | 4.7MF | 20% | 50V |
| C666 | 1-164-232-11 | CERAMIC CHIP | 0.01MF | 10% | 50V |
| C667 | 1-126-967-11 | ELECT | 47MF | 20% | 50V |
| C701 | 1-126-967-11 | ELECT | 47MF | 20% | 50V |
| C702 | 1-137-399-11 | FILM | 0.1MF | 5% | 50V |
| C705 | 1-126-942-61 | ELECT | 1000MF | 20% | 25V |
| C706 | 1-164-232-11 | CERAMIC CHIP | 0.01MF | 10% | 50V |
| C707 | 1-164-232-11 | CERAMIC CHIP | 0.01MF | 10% | 50V |
| C709 | 1-137-399-11 | FILM | 0.1MF | 5% | 50V |
| C710 | 1-163-019-00 | CERAMIC CHIP | 0.0068MF | 10% | 50V |
| C711 | 1-107-894-11 | ELECT | 220MF | 20% | 35V |
| C712 | 1-106-228-00 | MYLAR | 0.22MF | 10% | 100V |
| C713 | 1-126-942-61 | ELECT | 1000MF | 20% | 25V |
| C714 | 1-126-967-11 | ELECT | 47MF | 20% | 50V |
| C715 | 1-107-932-11 | ELECT | 47MF | 20% | 100V |
| C717 | 1-107-930-91 | ELECT | 22MF | 20% | 100V |
| C729 | 1-162-134-11 | CERAMIC | 470PF | 10% | 2KV |
| C735 | 1-137-399-11 | FILM | 0.1MF | 5% | 50V |
| C746 | 1-163-009-11 | CERAMIC CHIP | 0.001MF | 10% | 50V |
| C747 | 1-164-232-11 | CERAMIC CHIP | 0.01MF | 10% | 50V |
| C750 | 1-126-964-11 | ELECT | 10MF | 20% | 50V |
| C751 | 1-164-232-11 | CERAMIC CHIP | 0.01MF | 10% | 50V |
| C901 | 1-107-889-11 | ELECT | 220MF | 20% | 25V |
| C902 | 1-163-809-11 | CERAMIC CHIP | 0.047MF | 10% | 25V |
| C903 | 1-163-259-91 | CERAMIC CHIP | 220PF | 5% | 50V |
| C904 | 1-137-605-11 | FILM | 0.01MF | 10% | 250V |
| C905 | 1-104-653-11 | ELECT | 220MF | 20% | 16V |
| C906 | 1-106-220-00 | MYLAR | 0.1MF | 10% | 100V |
| C907 | 1-119-748-11 | ELECT | 33MF | 20% | 400V |
| C908 | 1-136-169-00 | FILM | 0.22MF | 5% | 50V |
| C909 | 1-106-355-12 | MYLAR | 0.0033MF | 10% | 200V |
| C910 | 1-164-232-11 | CERAMIC CHIP | 0.01MF | 10% | 50V |
| C911 | 1-163-275-11 | CERAMIC CHIP | 0.001MF | 5% | 50V |
| C912 | 1-163-275-11 | CERAMIC CHIP | 0.001MF | 5% | 50V |
| C913 | 1-164-004-11 | CERAMIC CHIP | 0.1MF | 10% | 25V |
| C914 | 1-163-275-11 | CERAMIC CHIP | 0.001MF | 5% | 50V |
| C915 | 1-164-232-11 | CERAMIC CHIP | 0.01MF | 10% | 50V |
| C916 | 1-136-064-00 | FILM | 2200PF | 3% | 1.2KV |
| C917 | 1-107-889-11 | ELECT | 220MF | 20% | 25V |
| C919 | 1-164-232-11 | CERAMIC CHIP | 0.01MF | 10% | 50V |
| C920 | 1-163-009-11 | CERAMIC CHIP | 0.001MF | 10% | 50V |
| C921 | 1-163-243-11 | CERAMIC CHIP | 47PF | 5% | 50V |
| C922 | 1-117-665-11 | FILM | 0.33MF | 5% | 200V |
| C923 | 1-106-359-00 | MYLAR | 0.0047MF | 10% | 100V |
| C924 | 1-106-220-00 | MYLAR | 0.1MF | 10% | 100V |
| C925 | 1-137-372-11 | FILM | 0.022MF | 5% | 50V |
| C926 | 1-106-228-00 | MYLAR | 0.22MF | 10% | 100V |
| C927 | 1-107-903-11 | ELECT | 2.2MF | 20% | 50V |
| C928 | 1-164-232-11 | CERAMIC CHIP | 0.01MF | 10% | 50V |
| C929 | 1-128-526-11 | ELECT | 100MF | 20% | 25V |
| C930 | 1-164-232-11 | CERAMIC CHIP | 0.01MF | 10% | 50V |
| C931 | 1-164-232-11 | CERAMIC CHIP | 0.01MF | 10% | 50V |
| C945 | 1-107-909-11 | ELECT | 47MF | 20% | 50V |
| C1003 | 1-164-232-11 | CERAMIC CHIP | 0.01MF | 10% | 50V |
| C1004 | 1-164-232-11 | CERAMIC CHIP | 0.01MF | 10% | 50V |
| C1005 | 1-164-232-11 | CERAMIC CHIP | 0.01MF | 10% | 50V |
| C1006 | 1-164-232-11 | CERAMIC CHIP | 0.01MF | 10% | 50V |
| C1007 | 1-164-232-11 | CERAMIC CHIP | 0.01MF | 10% | 50V |
| C1008 | 1-164-232-11 | CERAMIC CHIP | 0.01MF | 10% | 50V |
| C1009 | 1-126-960-11 | ELECT | 1MF | 20% | 50V |
| C1501 | 1-164-232-11 | CERAMIC CHIP | 0.01MF | 10% | 50V |
| C1502 | 1-117-722-11 | ELECT | 2200MF | 20% | 10V |
| C1503 | 1-163-001-11 | CERAMIC CHIP | 220PF | 10% | 50V |

<CONNECTOR>

| | | |
|---|---|---|
| CN501* | 1-564-512-11 | PLUG, CONNECTOR 9P |
| CN502* | 1-564-514-11 | PLUG, CONNECTOR 11P |
| CN503* | 1-564-510-11 | PLUG, CONNECTOR 7P |
| CN504* | 1-564-508-11 | PLUG, CONNECTOR 5P |
| CN505* | 1-508-879-11 | BASE POST |
| CN506* | 1-564-511-11 | PLUG, CONNECTOR 8P |
| CN507 | 1-764-101-11 | PIN, CONNECTOR (PC BOARD) 2P |
| CN508* | 1-778-955-11 | PIN, CONNECTOR (PC BOARD) 10P |
| CN509 | 1-564-505-11 | PLUG, CONNECTOR 2P |
| CN511* | 1-564-514-11 | PLUG, CONNECTOR 11P |
| CN512* | 1-564-512-11 | PLUG, CONNECTOR 9P |
| CN520* | 1-564-509-11 | PLUG, CONNECTOR 6P |
| CN901* | 1-564-520-11 | PLUG, CONNECTOR 5P |

| REF.NO. | PART NO. | DESCRIPTION | REMARK |
|---|---|---|---|
| | | <DIODE> | |
| D004 | 8-719-800-76 | DIODE 1SS226 | |
| D007 | 8-719-976-99 | ZENER DIODE DTZ5.1B | |
| D008 | 8-719-976-99 | ZENER DIODE DTZ5.1B | |
| D009 | 8-719-976-99 | ZENER DIODE DTZ5.1B | |
| D010 | 8-719-976-99 | ZENER DIODE DTZ5.1B | |
| D012 | 8-719-800-76 | DIODE 1SS226 | |
| D013 | 8-719-800-76 | DIODE 1SS226 | |
| D014 | 8-719-800-76 | DIODE 1SS226 | |
| D015 | 8-719-800-76 | DIODE 1SS226 | |
| D016 | 8-719-800-76 | DIODE 1SS226 | |
| D019 | 8-719-800-76 | DIODE 1SS226 | |
| D020 | 8-719-800-76 | DIODE 1SS226 | |
| D025 | 8-719-976-99 | ZENER DIODE DTZ5.1B | |
| D026 | 8-719-800-76 | DIODE 1SS226 | |
| D027 | 8-719-800-76 | DIODE 1SS226 | |
| D028 | 8-719-800-76 | DIODE 1SS226 | |
| D029 | 8-719-800-76 | DIODE 1SS226 | |
| D032 | 8-719-976-99 | ZENER DIODE DTZ5.1B | |
| D033 | 8-719-976-99 | ZENER DIODE DTZ5.1B | |
| D034 | 8-719-801-78 | DIODE 1SS184 | |
| D035 | 8-719-801-78 | DIODE 1SS184 | |
| D050 | 8-719-404-49 | DIODE MA111 | |
| D501 | 8-719-977-40 | ZENER DIODE DTZ13B | |
| D502 | 8-719-063-89 | DIODE YG911S3R | |
| D503 | 8-719-404-49 | DIODE MA111 | |
| D504 | 8-719-984-73 | DIODE SB560 | |
| D505 | 8-719-018-82 | DIODE RGP02-20EL-6394 | |
| D506 | 8-719-911-19 | DIODE 1SS119-25 | |
| D507 | 8-719-911-19 | DIODE 1SS119-25 | |
| D508 | 8-719-109-85 | ZENER DIODE RD5.1ESB2 | |
| D509 | 8-719-911-19 | DIODE 1SS119-25 | |
| D510 | 8-719-951-30 | DIODE ERA91-02 | |
| D511 | 8-719-911-19 | DIODE 1SS119-25 | |
| D512 | 8-719-018-82 | DIODE RGP02-20EL-6394 | |
| D513 | 8-719-404-49 | DIODE MA111 | |
| D514 | 8-719-109-93 | ZENER DIODE RD6.2ESB2 | |
| D516 | 8-719-105-99 | ZENER DIODE RD6.2M-B1 | |
| D517 | 8-719-105-99 | ZENER DIODE RD6.2M-B1 | |
| D518 | 8-719-404-49 | DIODE MA111 | |
| D519 | 8-719-066-36 | DIODE FMQ-G5GS | |
| D521 | 8-719-404-49 | DIODE MA111 | |
| D530 | 8-719-018-82 | DIODE RGP02-20EL-6394 | |
| D531 | 8-719-018-82 | DIODE RGP02-20EL-6394 | |
| D660 | 8-719-977-69 | ZENER DIODE DTZ24B | |
| D701 | 8-719-158-15 | ZENER DIODE RD5.6SB | |
| D704 | 8-719-404-49 | DIODE MA111 | |
| D705 | 8-719-404-49 | DIODE MA111 | |
| D706 | 8-719-976-99 | ZENER DIODE DTZ5.1B | |
| D709 | 8-719-979-85 | DIODE EGP20G | |
| D713 | 8-719-911-19 | DIODE 1SS119-25 | |
| D714 | 8-719-911-19 | DIODE 1SS119-25 | |
| D715 | 8-719-911-19 | DIODE 1SS119-25 | |
| D718 | 8-719-976-99 | ZENER DIODE DTZ5.1B | |
| D720 | 8-719-028-72 | DIODE RGP02-17EL-6433 | |
| D721 | 8-719-028-72 | DIODE RGP02-17EL-6433 | |
| D901 | 8-719-404-49 | DIODE MA111 | |
| D902 | 8-719-404-49 | DIODE MA111 | |
| D903 | 8-719-911-19 | DIODE 1SS119-25 | |
| D904 | 8-719-404-49 | DIODE MA111 | |
| D905 | 8-719-404-49 | DIODE MA111 | |
| D906 | 8-719-404-49 | DIODE MA111 | |
| D907 | 8-719-158-49 | ZENER DIODE RD12SB2 | |
| D908 | 8-719-158-49 | ZENER DIODE RD12SB2 | |
| D909 | 8-719-977-40 | ZENER DIODE DTZ13B | |
| D910 | 8-719-063-89 | DIODE YG911S3R | |
| D911 | 8-719-978-69 | ZENER DIODE DTZ-TT11-16B | |
| D913 | 8-719-158-49 | ZENER DIODE RD12SB2 | |
| D915 | 8-719-109-85 | ZENER DIODE RD5.1ESB2 | |
| D916 | 8-719-939-79 | DIODE GMA01-BT | |
| D917 | 8-719-110-46 | ZENER DIODE RD16ESB3 | |
| D919 | 8-719-911-19 | DIODE 1SS119-25 | |
| D921 | 8-719-404-49 | DIODE MA111 | |
| D922 | 8-719-404-49 | DIODE MA111 | |
| D923 | 8-719-404-49 | DIODE MA111 | |
| D924 | 8-719-976-99 | ZENER DIODE DTZ5.1B | |
| D935 | 8-719-977-81 | ZENER DIODE DTZ33B | |
| D1501 | 8-719-976-99 | ZENER DIODE DTZ5.1B | |
| D1502 | 8-719-404-49 | DIODE MA111 | |
| D1503 | 8-719-404-49 | DIODE MA111 | |
| | | <FERRITE BEAD> | |
| FB501 | 1-410-397-21 | FERRITE 1.1UH | |
| FB502 | 1-410-397-21 | FERRITE 1.1UH | |
| FB901 | 1-410-397-21 | FERRITE 1.1UH | |
| FB1025 | 1-414-232-11 | INDUCTOR CHIP 0UH | |
| FB1026 | 1-414-232-11 | INDUCTOR CHIP 0UH | |
| | | <IC> | |
| IC001 | 8-759-531-24 | IC MB90553PF-G-120-BND | |
| IC002 | 8-759-442-20 | IC 24LC21A/SN | |
| IC003 | 8-759-168-20 | IC TA78L09S | |
| IC004 | 8-759-454-79 | IC 24LC16BT/SN | |
| IC005 | 8-759-162-80 | IC MM1170BFB | |
| IC006 | 8-759-231-53 | IC TA7805S | |
| IC007 | 8-752-078-46 | IC CXA2043Q | |
| IC008 | 8-759-701-59 | IC NJM78M09FA | |
| IC009 | 8-759-082-57 | IC TC7W04FU | |
| IC010 | 8-752-083-83 | IC CXA2044M-T6 | |
| IC011 | 8-759-708-05 | IC NJM78L05A | |
| IC012 | 8-759-442-20 | IC 24LC21A/SN | |
| IC013 | 8-759-233-66 | IC TC74HCT04AF | |
| IC502 | 8-759-803-42 | IC LA6500-FA | |
| IC505 | 8-759-100-96 | IC UPC4558G2 | |
| IC701 | 8-759-822-38 | IC LA6510 | |
| IC702 | 8-759-444-82 | IC LA7841L | |
| IC703 | 8-759-100-96 | IC UPC4558G2 | |
| IC901 | 8-759-467-70 | IC BA9756FS-E2 | |

D

Les composants identifiés per un tramé et une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une piéce portant le numéro spécifié.

The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

| REF.NO. | PART NO. | DESCRIPTION | REMARK |
|---|---|---|---|
| | | <CHIP CONDUCTOR> | |
| JR001 | 1-216-295-91 | SHORT 0 | |
| JR002 | 1-216-295-91 | SHORT 0 | |
| JR003 | 1-216-295-91 | SHORT 0 | |
| JR004 | 1-216-295-91 | SHORT 0 | |
| | | <COIL> | |
| L001 | 1-406-665-11 | INDUCTOR 0UH | |
| L002 | 1-406-665-11 | INDUCTOR 0UH | |
| L003 | 1-412-537-31 | INDUCTOR 100UH | |
| L004 | 1-412-537-31 | INDUCTOR 100UH | |
| L006 | 1-410-482-31 | INDUCTOR 100UH | |
| L007 | 1-412-537-31 | INDUCTOR 100UH | |
| L008 | 1-412-537-31 | INDUCTOR 100UH | |
| L501 | 1-412-537-31 | INDUCTOR 100UH | |
| L502 | 1-406-671-11 | INDUCTOR 0UH | |
| L503 | 1-416-455-11 | COIL, HORIZONTAL LINEARITY | |
| L504 | 1-416-456-11 | COIL, HORIZONTAL LINEARITY | |
| L505 | 1-406-675-11 | INDUCTOR 0UH | |
| L507 | 1-406-675-11 | INDUCTOR 0UH | |
| L701 | 1-412-537-31 | INDUCTOR 100UH | |
| L702 | 1-412-522-31 | INDUCTOR 5.6UH | |
| L901 | 1-412-537-31 | INDUCTOR 100UH | |
| L902 | 1-406-660-41 | INDUCTOR 0UH | |
| L903 | 1-412-537-31 | INDUCTOR 100UH | |
| | | <IC LINK> | |
| PS501⚠ | 1-533-592-31 | LINK, IC (1.6A/90V AC, 60V DC) | |
| PS502⚠ | 1-532-984-91 | LINK, IC (2A/90V) | |
| PS503⚠ | 1-532-984-91 | LINK, IC (2A/90V) | |
| PS504⚠ | 1-532-984-91 | LINK, IC (2A/90V) | |
| PS701⚠ | 1-533-590-31 | LINK, IC (1A/90V AC, 60V DC) | |
| PS901⚠ | 1-533-592-31 | LINK, IC (1.6A/90V AC, 60V DC) | |
| | | <TRANSISTOR> | |
| Q001 | 8-729-027-31 | TRANSISTOR DTA124EKA-T146 | |
| Q003 | 8-729-216-22 | TRANSISTOR 2SA1162-G | |
| Q004 | 8-729-216-22 | TRANSISTOR 2SA1162-G | |
| Q005 | 8-729-216-22 | TRANSISTOR 2SA1162-G | |
| Q006 | 8-729-120-28 | TRANSISTOR 2SC1623-L5L6 | |
| Q007 | 8-729-120-28 | TRANSISTOR 2SC1623-L5L6 | |
| Q501 | 8-729-120-28 | TRANSISTOR 2SC1623-L5L6 | |
| Q502 | 8-729-120-28 | TRANSISTOR 2SC1623-L5L6 | |
| Q503 | 8-729-901-97 | TRANSISTOR 2SA1036K-Q | |
| Q504 | 8-729-120-28 | TRANSISTOR 2SC1623-L5L6 | |
| Q505 | 8-729-901-97 | TRANSISTOR 2SA1036K-Q | |
| Q506 | 8-729-820-73 | TRANSISTOR 2SC3746 | |
| Q507 | 8-729-035-54 | TRANSISTOR 2SJ449 | |
| Q508 | 8-729-031-87 | TRANSISTOR 2SC5047-CA | |
| Q509 | 8-729-033-25 | TRANSISTOR DTC114GKA | |
| Q510 | 8-729-120-28 | TRANSISTOR 2SC1623-L5L6 | |
| Q511 | 8-729-140-50 | TRANSISTOR 2SC3209LK | |
| Q512 | 8-729-120-28 | TRANSISTOR 2SC1623-L5L6 | |
| Q517 | 8-729-216-22 | TRANSISTOR 2SA1162-G | |
| Q522 | 8-729-043-41 | TRANSISTOR 2SK2098-01MR-F119 | |
| Q523 | 8-729-043-41 | TRANSISTOR 2SK2098-01MR-F119 | |
| Q524 | 8-729-043-41 | TRANSISTOR 2SK2098-01MR-F119 | |
| Q525 | 8-729-043-41 | TRANSISTOR 2SK2098-01MR-F119 | |
| Q526 | 8-729-043-41 | TRANSISTOR 2SK2098-01MR-F119 | |
| Q527 | 8-729-043-41 | TRANSISTOR 2SK2098-01MR-F119 | |
| Q528 | 8-729-043-41 | TRANSISTOR 2SK2098-01MR-F119 | |
| Q660 | 8-729-033-26 | TRANSISTOR DTA114GKAT146 | |
| Q661 | 8-729-033-25 | TRANSISTOR DTC114GKA | |
| Q701 | 8-729-800-32 | TRANSISTOR 2SC2362K-G | |
| Q703 | 8-729-178-43 | TRANSISTOR 2SC2784-E | |
| Q704 | 8-729-207-82 | TRANSISTOR 2SC3421-Y | |
| Q705 | 8-729-204-91 | TRANSISTOR 2SA1049-GR | |
| Q706 | 8-729-207-89 | TRANSISTOR 2SA1358-Y | |
| Q707 | 8-729-216-22 | TRANSISTOR 2SA1162-G | |
| Q708 | 8-729-020-07 | TRANSISTOR 2SC4686A(LBSONY) | |
| Q901 | 8-729-120-28 | TRANSISTOR 2SC1623-L5L6 | |
| Q902 | 8-729-216-22 | TRANSISTOR 2SA1162-G | |
| Q904 | 8-729-901-87 | TRANSISTOR 2SC2411K-CQ | |
| Q905 | 8-729-901-97 | TRANSISTOR 2SA1036K-Q | |
| Q908 | 8-729-035-54 | TRANSISTOR 2SJ449 | |
| Q909 | 8-729-033-91 | TRANSISTOR 2SK1120LBSONY2 | |
| Q911 | 8-729-033-25 | TRANSISTOR DTC114GKA | |
| | | <RESISTOR> | |
| R001 | 1-216-025-91 | RES,CHIP 100 5% 1/10W | |
| R002 | 1-216-049-91 | RES,CHIP 1K 5% 1/10W | |
| R003 | 1-216-049-91 | RES,CHIP 1K 5% 1/10W | |
| R004 | 1-216-049-91 | RES,CHIP 1K 5% 1/10W | |
| R005 | 1-216-073-00 | RES,CHIP 10K 5% 1/10W | |
| R006 | 1-216-049-91 | RES,CHIP 1K 5% 1/10W | |
| R007 | 1-216-025-91 | RES,CHIP 100 5% 1/10W | |
| R008 | 1-216-089-91 | RES,CHIP 47K 5% 1/10W | |
| R009 | 1-216-025-91 | RES,CHIP 100 5% 1/10W | |
| R010 | 1-216-081-00 | RES,CHIP 22K 5% 1/10W | |
| R011 | 1-216-097-91 | RES,CHIP 100K 5% 1/10W | |
| R012 | 1-216-025-91 | RES,CHIP 100 5% 1/10W | |
| R013 | 1-216-675-11 | METAL CHIP 10K 0.50% 1/10W | |
| R017 | 1-216-049-91 | RES,CHIP 1K 5% 1/10W | |
| R018 | 1-216-049-91 | RES,CHIP 1K 5% 1/10W | |
| R020 | 1-216-049-91 | RES,CHIP 1K 5% 1/10W | |
| R023 | 1-216-025-91 | RES,CHIP 100 5% 1/10W | |
| R024 | 1-216-089-91 | RES,CHIP 47K 5% 1/10W | |
| R025 | 1-216-295-91 | SHORT 0 | |
| R026 | 1-216-073-00 | RES,CHIP 10K 5% 1/10W | |
| R027 | 1-216-073-00 | RES,CHIP 10K 5% 1/10W | |
| R028 | 1-216-065-00 | RES,CHIP 4.7K 5% 1/10W | |
| R029 | 1-216-089-91 | RES,CHIP 47K 5% 1/10W | |
| R030 | 1-216-017-91 | RES,CHIP 47 5% 1/10W | |
| R031 | 1-216-073-00 | RES,CHIP 10K 5% 1/10W | |
| R032 | 1-216-675-11 | METAL CHIP 10K 0.50% 1/10W | |
| R033 | 1-216-017-91 | RES,CHIP 47 5% 1/10W | |

| REF.NO. | PART NO. | DESCRIPTION | | | REMARK |
|---|---|---|---|---|---|
| R034 | 1-216-025-91 | RES,CHIP | 100 | 5% | 1/10W |
| R035 | 1-216-049-91 | RES,CHIP | 1K | 5% | 1/10W |
| R036 | 1-216-025-91 | RES,CHIP | 100 | 5% | 1/10W |
| R037 | 1-216-686-11 | METAL CHIP | 30K | 0.50% | 1/10W |
| R038 | 1-216-685-11 | METAL CHIP | 27K | 0.50% | 1/10W |
| R039 | 1-216-049-91 | RES,CHIP | 1K | 5% | 1/10W |
| R040 | 1-216-049-91 | RES,CHIP | 1K | 5% | 1/10W |
| R041 | 1-216-065-00 | RES,CHIP | 4.7K | 5% | 1/10W |
| R042 | 1-216-089-91 | RES,CHIP | 47K | 5% | 1/10W |
| R043 | 1-216-065-00 | RES,CHIP | 4.7K | 5% | 1/10W |
| R044 | 1-216-095-00 | RES,CHIP | 82K | 5% | 1/10W |
| R045 | 1-216-073-00 | RES,CHIP | 10K | 5% | 1/10W |
| R046 | 1-216-675-11 | METAL CHIP | 10K | 0.50% | 1/10W |
| R047 | 1-216-073-00 | RES,CHIP | 10K | 5% | 1/10W |
| R048 | 1-216-049-91 | RES,CHIP | 1K | 5% | 1/10W |
| R049 | 1-216-049-91 | RES,CHIP | 1K | 5% | 1/10W |
| R050 | 1-216-025-91 | RES,CHIP | 100 | 5% | 1/10W |
| R051 | 1-216-679-11 | METAL CHIP | 15K | 0.50% | 1/10W |
| R052 | 1-216-073-00 | RES,CHIP | 10K | 5% | 1/10W |
| R053 | 1-216-675-11 | METAL CHIP | 10K | 0.50% | 1/10W |
| R054 | 1-216-675-11 | METAL CHIP | 10K | 0.50% | 1/10W |
| R055 | 1-216-089-91 | RES,CHIP | 47K | 5% | 1/10W |
| R056 | 1-216-671-11 | METAL CHIP | 6.8K | 0.50% | 1/10W |
| R057 | 1-216-679-11 | METAL CHIP | 15K | 0.50% | 1/10W |
| R058 | 1-216-663-11 | METAL CHIP | 3.3K | 0.50% | 1/10W |
| R059 | 1-216-065-00 | RES,CHIP | 4.7K | 5% | 1/10W |
| R060 | 1-216-025-91 | RES,CHIP | 100 | 5% | 1/10W |
| R061 | 1-216-065-00 | RES,CHIP | 4.7K | 5% | 1/10W |
| R063 | 1-216-025-91 | RES,CHIP | 100 | 5% | 1/10W |
| R064 | 1-216-025-91 | RES,CHIP | 100 | 5% | 1/10W |
| R065 | 1-216-025-91 | RES,CHIP | 100 | 5% | 1/10W |
| R066 | 1-216-025-91 | RES,CHIP | 100 | 5% | 1/10W |
| R067 | 1-216-025-91 | RES,CHIP | 100 | 5% | 1/10W |
| R068 | 1-216-025-91 | RES,CHIP | 100 | 5% | 1/10W |
| R069 | 1-216-017-91 | RES,CHIP | 47 | 5% | 1/10W |
| R070 | 1-216-675-11 | METAL CHIP | 10K | 0.50% | 1/10W |
| R071 | 1-216-049-91 | RES,CHIP | 1K | 5% | 1/10W |
| R072 | 1-216-651-11 | METAL CHIP | 1K | 0.50% | 1/10W |
| R073 | 1-216-295-91 | SHORT | 0 | | |
| R074 | 1-216-675-11 | METAL CHIP | 10K | 0.50% | 1/10W |
| R075 | 1-216-049-91 | RES,CHIP | 1K | 5% | 1/10W |
| R076 | 1-216-049-91 | RES,CHIP | 1K | 5% | 1/10W |
| R077 | 1-216-049-91 | RES,CHIP | 1K | 5% | 1/10W |
| R078 | 1-216-049-91 | RES,CHIP | 1K | 5% | 1/10W |
| R079 | 1-216-017-91 | RES,CHIP | 47 | 5% | 1/10W |
| R080 | 1-216-017-91 | RES,CHIP | 47 | 5% | 1/10W |
| R081 | 1-216-675-11 | METAL CHIP | 10K | 0.50% | 1/10W |
| R082 | 1-216-049-91 | RES,CHIP | 1K | 5% | 1/10W |
| R083 | 1-216-057-00 | RES,CHIP | 2.2K | 5% | 1/10W |
| R084 | 1-216-025-91 | RES,CHIP | 100 | 5% | 1/10W |
| R085 | 1-216-025-91 | RES,CHIP | 100 | 5% | 1/10W |
| R086 | 1-216-049-91 | RES,CHIP | 1K | 5% | 1/10W |
| R088 | 1-216-057-00 | RES,CHIP | 2.2K | 5% | 1/10W |
| R089 | 1-216-057-00 | RES,CHIP | 2.2K | 5% | 1/10W |
| R090 | 1-216-057-00 | RES,CHIP | 2.2K | 5% | 1/10W |
| R092 | 1-216-057-00 | RES,CHIP | 2.2K | 5% | 1/10W |
| R094 | 1-216-057-00 | RES,CHIP | 2.2K | 5% | 1/10W |
| R096 | 1-216-671-11 | METAL CHIP | 6.8K | 0.50% | 1/10W |
| R097 | 1-216-057-00 | RES,CHIP | 2.2K | 5% | 1/10W |
| R101 | 1-216-049-91 | RES,CHIP | 1K | 5% | 1/10W |
| R501 | 1-216-065-00 | RES,CHIP | 4.7K | 5% | 1/10W |
| R502 | 1-216-057-00 | RES,CHIP | 2.2K | 5% | 1/10W |
| R503 | 1-216-041-00 | RES,CHIP | 470 | 5% | 1/10W |
| R504 | 1-216-057-00 | RES,CHIP | 2.2K | 5% | 1/10W |
| R505 | 1-216-041-00 | RES,CHIP | 470 | 5% | 1/10W |
| R506 | 1-249-397-11 | CARBON | 22 | 5% | 1/4W F |
| R507 | 1-216-065-00 | RES,CHIP | 4.7K | 5% | 1/10W |
| R508 | 1-216-025-91 | RES,CHIP | 100 | 5% | 1/10W |
| R509 | 1-216-057-00 | RES,CHIP | 2.2K | 5% | 1/10W |
| R510 | 1-216-065-00 | RES,CHIP | 4.7K | 5% | 1/10W |
| R511 | 1-219-726-11 | METAL | 2.2 | 5% | 10W |
| R512 | 1-216-627-11 | METAL CHIP | 100 | 0.50% | 1/10W |
| R513 | 1-215-860-11 | METAL OXIDE | 33 | 5% | 1W F |
| R514 | 1-211-796-11 | FUSIBLE | 1 | 5% | 1/2W F |
| R515 | 1-216-675-11 | METAL CHIP | 10K | 0.50% | 1/10W |
| R516 | 1-247-815-91 | CARBON | 220 | 5% | 1/4W |
| R517 | 1-216-065-00 | RES,CHIP | 4.7K | 5% | 1/10W |
| R518 | 1-216-097-91 | RES,CHIP | 100K | 5% | 1/10W |
| R519 | 1-216-393-00 | METAL OXIDE | 2.2 | 5% | 3W F |
| R520 | 1-216-393-00 | METAL OXIDE | 2.2 | 5% | 3W F |
| R521 | 1-249-413-11 | CARBON | 470 | 5% | 1/4W F |
| R522 | 1-216-423-11 | METAL OXIDE | 27 | 5% | 1W F |
| R523 | 1-249-421-11 | CARBON | 2.2K | 5% | 1/4W F |
| R524 | 1-215-869-11 | METAL OXIDE | 1K | 5% | 1W F |
| R525 | 1-216-681-11 | METAL CHIP | 18K | 0.50% | 1/10W |
| R526 | 1-214-840-00 | METAL | 100 | 1% | 1/2W |
| R527 | 1-214-840-00 | METAL | 100 | 1% | 1/2W |
| R528 | 1-214-840-00 | METAL | 100 | 1% | 1/2W |
| R529 | 1-260-313-51 | CARBON | 56 | 5% | 1/2W |
| R530 | 1-249-437-11 | CARBON | 47K | 5% | 1/4W |
| R531 | 1-249-437-11 | CARBON | 47K | 5% | 1/4W |
| R532 | 1-249-437-11 | CARBON | 47K | 5% | 1/4W |
| R533 | 1-249-437-11 | CARBON | 47K | 5% | 1/4W |
| R534 | 1-249-437-11 | CARBON | 47K | 5% | 1/4W |
| R535 | 1-216-049-91 | RES,CHIP | 1K | 5% | 1/10W |
| R536 | 1-216-049-91 | RES,CHIP | 1K | 5% | 1/10W |
| R537 | 1-216-049-91 | RES,CHIP | 1K | 5% | 1/10W |
| R538 | 1-216-049-91 | RES,CHIP | 1K | 5% | 1/10W |
| R539 | 1-216-049-91 | RES,CHIP | 1K | 5% | 1/10W |
| R540 | 1-216-073-00 | RES,CHIP | 10K | 5% | 1/10W |
| R541 | 1-260-314-11 | CARBON | 68 | 5% | 1/2W |
| R542 | 1-215-863-11 | METAL OXIDE | 100 | 5% | 1W F |
| R543 | 1-216-640-11 | METAL CHIP | 360 | 0.50% | 1/10W |
| R544 | 1-260-085-11 | CARBON | 68 | 5% | 1/2W |
| R545 | 1-216-683-11 | METAL CHIP | 22K | 0.50% | 1/10W |
| R546 | 1-260-288-11 | CARBON | 0.47 | 5% | 1/2W |
| R547 | 1-216-663-11 | METAL CHIP | 3.3K | 0.50% | 1/10W |
| R548 | 1-215-443-00 | METAL | 8.2K | 1% | 1/4W |
| R549 | 1-216-675-11 | METAL CHIP | 10K | 0.50% | 1/10W |
| R550 | 1-260-288-11 | CARBON | 0.47 | 5% | 1/2W |
| R551 | 1-216-659-11 | METAL CHIP | 2.2K | 0.50% | 1/10W |
| R552 | 1-216-057-00 | RES,CHIP | 2.2K | 5% | 1/10W |

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| REF.NO. | PART NO. | DESCRIPTION | | | REMARK |
|---|---|---|---|---|---|
| R553 | 1-216-655-11 | METAL CHIP | 1.5K | 0.50% | 1/10W |
| R554 | 1-216-675-11 | METAL CHIP | 10K | 0.50% | 1/10W |
| R555 | 1-216-065-00 | RES,CHIP | 4.7K | 5% | 1/10W |
| R556 | 1-216-674-11 | METAL CHIP | 9.1K | 0.50% | 1/10W |
| R557 | 1-218-760-11 | METAL CHIP | 220K | 0.50% | 1/10W |
| R558 | 1-216-683-11 | METAL CHIP | 22K | 0.50% | 1/10W |
| R561 | 1-216-683-11 | METAL CHIP | 22K | 0.50% | 1/10W |
| R562 | 1-249-401-11 | CARBON | 47 | 5% | 1/4W F |
| R563 | 1-216-662-11 | METAL CHIP | 3K | 0.50% | 1/10W |
| R564 | 1-216-697-91 | METAL CHIP | 82K | 0.50% | 1/10W |
| R565 | 1-216-671-11 | METAL CHIP | 6.8K | 0.50% | 1/10W |
| R566 | 1-260-311-11 | CARBON | 39 | 5% | 1/2W |
| R567 | 1-216-627-11 | METAL CHIP | 100 | 0.50% | 1/10W |
| R568 | 1-216-655-11 | METAL CHIP | 1.5K | 0.50% | 1/10W |
| R571 | 1-216-381-11 | METAL OXIDE | 0.22 | 5% | 3W F |
| R572 | 1-216-097-91 | RES,CHIP | 100K | 5% | 1/10W |
| R573 | 1-216-097-91 | RES,CHIP | 100K | 5% | 1/10W |
| R574 | 1-216-097-91 | RES,CHIP | 100K | 5% | 1/10W |
| R575 | 1-216-097-91 | RES,CHIP | 100K | 5% | 1/10W |
| R576 | 1-216-097-91 | RES,CHIP | 100K | 5% | 1/10W |
| R577 | 1-216-057-00 | RES,CHIP | 2.2K | 5% | 1/10W |
| R578 | 1-216-025-91 | RES,CHIP | 100 | 5% | 1/10W |
| R579 | 1-216-672-11 | METAL CHIP | 7.5K | 0.50% | 1/10W |
| R580 | 1-216-073-00 | RES,CHIP | 10K | 5% | 1/10W |
| R581 | 1-216-073-00 | RES,CHIP | 10K | 5% | 1/10W |
| R582 | 1-216-073-00 | RES,CHIP | 10K | 5% | 1/10W |
| R583 | 1-216-677-11 | METAL CHIP | 12K | 0.50% | 1/10W |
| R584 | 1-216-081-00 | RES,CHIP | 22K | 5% | 1/10W |
| R585 | 1-216-081-00 | RES,CHIP | 22K | 5% | 1/10W |
| R586 | 1-216-049-91 | RES,CHIP | 1K | 5% | 1/10W |
| R587 | 1-216-049-91 | RES,CHIP | 1K | 5% | 1/10W |
| R588 | 1-216-097-91 | RES,CHIP | 100K | 5% | 1/10W |
| R589 | 1-216-097-91 | RES,CHIP | 100K | 5% | 1/10W |
| R590 | 1-216-675-11 | METAL CHIP | 10K | 0.50% | 1/10W |
| R591 | 1-216-675-11 | METAL CHIP | 10K | 0.50% | 1/10W |
| R594 | 1-249-437-11 | CARBON | 47K | 5% | 1/4W |
| R595 | 1-249-437-11 | CARBON | 47K | 5% | 1/4W |
| R596 | 1-216-683-11 | METAL CHIP | 22K | 0.50% | 1/10W |
| R663 | 1-215-482-00 | METAL | 360K | 1% | 1/4W |
| R664 | 1-215-459-00 | METAL | 39K | 1% | 1/4W |
| R665 | 1-216-049-91 | RES,CHIP | 1K | 5% | 1/10W |
| R667 | 1-216-041-00 | RES,CHIP | 470 | 5% | 1/10W |
| R669 | 1-216-671-11 | METAL CHIP | 6.8K | 0.50% | 1/10W |
| R701 | 1-249-383-11 | CARBON | 1.5 | 5% | 1/4W F |
| R702 | 1-216-057-00 | RES,CHIP | 2.2K | 5% | 1/10W |
| R703 | 1-216-085-00 | RES,CHIP | 33K | 5% | 1/10W |
| R704 | 1-249-383-11 | CARBON | 1.5 | 5% | 1/4W F |
| R705 | 1-249-385-11 | CARBON | 2.2 | 5% | 1/4W |
| R706 | 1-216-093-00 | RES,CHIP | 68K | 5% | 1/10W |
| R707 | 1-249-421-11 | CARBON | 2.2K | 5% | 1/4W |
| R708 | 1-216-073-00 | RES,CHIP | 10K | 5% | 1/10W |
| R709 | 1-216-473-11 | METAL OXIDE | 56 | 5% | 3W F |
| R710 | 1-216-073-00 | RES,CHIP | 10K | 5% | 1/10W |
| R715 | 1-216-077-00 | RES,CHIP | 15K | 5% | 1/10W |
| R719 | 1-249-383-11 | CARBON | 1.5 | 5% | 1/4W F |
| R720 | 1-260-292-11 | CARBON | 1 | 5% | 1/2W |
| R721 | 1-216-667-11 | METAL CHIP | 4.7K | 0.50% | 1/10W |
| R722 | 1-216-691-11 | METAL CHIP | 47K | 0.50% | 1/10W |
| R723 | 1-216-663-11 | METAL CHIP | 3.3K | 0.50% | 1/10W |
| R724 | 1-214-798-21 | METAL | 1.8 | 1% | 1/2W |
| R725 | 1-214-798-21 | METAL | 1.8 | 1% | 1/2W |
| R726 | 1-216-675-11 | METAL CHIP | 10K | 0.50% | 1/10W |
| R727 | 1-260-292-11 | CARBON | 1 | 5% | 1/2W |
| R728 | 1-249-381-11 | CARBON | 1 | 5% | 1/4W F |
| R729 | 1-215-865-11 | METAL OXIDE | 220 | 5% | 1W F |
| R730 | 1-219-746-11 | CARBON | 1K | 5% | 1/2W |
| R731 | 1-216-073-00 | RES,CHIP | 10K | 5% | 1/10W |
| R732 | 1-216-073-00 | RES,CHIP | 10K | 5% | 1/10W |
| R733 | 1-219-746-11 | CARBON | 1K | 5% | 1/2W |
| R734 | 1-215-881-11 | METAL OXIDE | 15 | 5% | 2W F |
| R737 | 1-249-377-11 | CARBON | 0.47 | 5% | 1/4W F |
| R738 | 1-249-377-11 | CARBON | 0.47 | 5% | 1/4W F |
| R739 | 1-249-413-11 | CARBON | 470 | 5% | 1/4W F |
| R741 | 1-249-430-11 | CARBON | 12K | 5% | 1/4W |
| R742 | 1-249-419-11 | CARBON | 1.5K | 5% | 1/4W |
| R743 | 1-216-049-91 | RES,CHIP | 1K | 5% | 1/10W |
| R748 | 1-216-683-11 | METAL CHIP | 22K | 0.50% | 1/10W |
| R749 | 1-216-049-91 | RES,CHIP | 1K | 5% | 1/10W |
| R750 | 1-216-057-00 | RES,CHIP | 2.2K | 5% | 1/10W |
| R751 | 1-216-065-00 | RES,CHIP | 4.7K | 5% | 1/10W |
| R752 | 1-216-083-00 | RES,CHIP | 27K | 5% | 1/10W |
| R753 | 1-219-720-11 | METAL | 10M | 5% | 1W |
| R754 | 1-219-754-11 | CARBON | 680K | 5% | 1/2W |
| R755 | 1-219-754-11 | CARBON | 680K | 5% | 1/2W |
| R756 | 1-220-824-11 | CARBON | 270K | 5% | 1/2W |
| R759 | 1-218-754-11 | METAL CHIP | 120K | 0.50% | 1/10W |
| R776 | 1-216-049-91 | RES,CHIP | 1K | 5% | 1/10W |
| R777 | 1-216-681-11 | METAL CHIP | 18K | 0.50% | 1/10W |
| R778 | 1-216-667-11 | METAL CHIP | 4.7K | 0.50% | 1/10W |
| R779 | 1-216-049-91 | RES,CHIP | 1K | 5% | 1/10W |
| R784 | 1-216-081-00 | RES,CHIP | 22K | 5% | 1/10W |
| R900 | 1-216-399-00 | METAL OXIDE | 6.8 | 5% | 3W F |
| R901 | 1-216-057-00 | RES,CHIP | 2.2K | 5% | 1/10W |
| R902 | 1-216-065-00 | RES,CHIP | 4.7K | 5% | 1/10W |
| R903 | 1-216-073-00 | RES,CHIP | 10K | 5% | 1/10W |
| R904 | 1-216-057-00 | RES,CHIP | 2.2K | 5% | 1/10W |
| R905 | 1-216-025-91 | RES,CHIP | 100 | 5% | 1/10W |
| R906 | 1-216-065-00 | RES,CHIP | 4.7K | 5% | 1/10W |
| R907 | 1-216-025-91 | RES,CHIP | 100 | 5% | 1/10W |
| R908 | 1-216-091-00 | RES,CHIP | 56K | 5% | 1/10W |
| R909 | 1-216-689-11 | RES,CHIP | 39K | 5% | 1/10W |
| R910 | 1-216-073-00 | RES,CHIP | 10K | 5% | 1/10W |
| R911 | 1-216-049-91 | RES,CHIP | 1K | 5% | 1/10W |
| R912 | 1-218-772-11 | METAL CHIP | 680K | 0.50% | 1/10W |
| R913 | 1-219-748-11 | CARBON | 4.7K | 5% | 1/2W |
| R914 | 1-219-510-11 | CARBON | 470K | 5% | 1/2W |
| R915 | 1-249-437-11 | CARBON | 47K | 5% | 1/4W |
| R916 | 1-249-429-11 | CARBON | 10K | 5% | 1/4W |
| R917 | 1-216-073-00 | RES,CHIP | 10K | 5% | 1/10W |
| R918 | 1-216-097-91 | RES,CHIP | 100K | 5% | 1/10W |
| R919 | 1-216-025-91 | RES,CHIP | 100 | 5% | 1/10W |
| R920 | 1-249-401-11 | CARBON | 47 | 5% | 1/4W F |

The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

Les composants identifiés per un tramé et une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une piéce portant le numéro spécifié.

| REF.NO. | PART NO. | DESCRIPTION | | | REMARK |
|---|---|---|---|---|---|
| R921 | 1-216-668-11 | METAL CHIP | 5.1K | 0.50% | 1/10W |
| R922 | 1-216-041-00 | RES,CHIP | 470 | 5% | 1/10W |
| R923 | 1-216-675-11 | METAL CHIP | 10K | 0.50% | 1/10W |
| R924 | 1-249-397-11 | CARBON | 22 | 5% | 1/4W F |
| R925 | 1-216-653-11 | METAL CHIP | 1.2K | 0.50% | 1/10W |
| R926 | 1-216-653-11 | METAL CHIP | 1.2K | 0.50% | 1/10W |
| R927 | 1-216-073-00 | RES,CHIP | 10K | 5% | 1/10W |
| R928 | 1-216-667-11 | METAL CHIP | 4.7K | 0.50% | 1/10W |
| R929 | 1-216-033-00 | RES,CHIP | 220 | 5% | 1/10W |
| R930 | 1-216-033-00 | RES,CHIP | 220 | 5% | 1/10W |
| R933 | 1-216-683-11 | METAL CHIP | 22K | 0.50% | 1/10W |
| R934 | 1-216-667-11 | METAL CHIP | 4.7K | 0.50% | 1/10W |
| R937 | 1-219-727-11 | METAL | 68 | 5% | 10W |
| R940 | 1-249-393-11 | CARBON | 10 | 5% | 1/4W F |
| R941 | 1-216-073-00 | RES,CHIP | 10K | 5% | 1/10W |
| R980 | 1-216-049-91 | RES,CHIP | 1K | 5% | 1/10W |
| R981 | 1-216-025-91 | RES,CHIP | 100 | 5% | 1/10W |
| R1001 | 1-216-073-00 | RES,CHIP | 10K | 5% | 1/10W |
| R1003 | 1-216-049-91 | RES,CHIP | 1K | 5% | 1/10W |
| R1004 | 1-216-049-91 | RES,CHIP | 1K | 5% | 1/10W |
| R1005 | 1-216-049-91 | RES,CHIP | 1K | 5% | 1/10W |
| R1006 | 1-216-049-91 | RES,CHIP | 1K | 5% | 1/10W |
| R1007 | 1-216-049-91 | RES,CHIP | 1K | 5% | 1/10W |
| R1009 | 1-216-097-91 | RES,CHIP | 100K | 5% | 1/10W |
| R1011 | 1-216-073-00 | RES,CHIP | 10K | 5% | 1/10W |
| R1012 | 1-216-049-91 | RES,CHIP | 1K | 5% | 1/10W |
| R1013 | 1-216-049-91 | RES,CHIP | 1K | 5% | 1/10W |
| R1014 | 1-216-049-91 | RES,CHIP | 1K | 5% | 1/10W |
| R1015 | 1-216-295-91 | SHORT | 0 | | |
| R1016 | 1-216-049-91 | RES,CHIP | 1K | 5% | 1/10W |
| R1017 | 1-216-065-00 | RES,CHIP | 4.7K | 5% | 1/10W |
| R1020 | 1-216-049-91 | RES,CHIP | 1K | 5% | 1/10W |
| R1021 | 1-216-049-91 | RES,CHIP | 1K | 5% | 1/10W |
| R1022 | 1-216-295-91 | SHORT | 0 | | |
| R1023 | 1-216-295-91 | SHORT | 0 | | |
| R1024 | 1-216-295-91 | SHORT | 0 | | |
| R1025 | 1-249-389-11 | CARBON | 4.7 | 5% | 1/4W F |
| R1026 | 1-249-389-11 | CARBON | 4.7 | 5% | 1/4W F |
| R1027 | 1-216-065-00 | RES,CHIP | 4.7K | 5% | 1/10W |
| R1028 | 1-216-049-91 | RES,CHIP | 1K | 5% | 1/10W |
| R1501 | 1-216-057-00 | RES,CHIP | 2.2K | 5% | 1/10W |
| R1502 | 1-216-073-00 | RES,CHIP | 10K | 5% | 1/10W |
| R1503 | 1-216-125-00 | RES,CHIP | 1.5M | 5% | 1/10W |
| R1504 | 1-216-097-91 | RES,CHIP | 100K | 5% | 1/10W |
| R1513 | 1-216-049-91 | RES,CHIP | 1K | 5% | 1/10W |
| R1514 | 1-216-049-91 | RES,CHIP | 1K | 5% | 1/10W |

<RELAY>

| | | |
|---|---|---|
| RY501 | 1-755-137-11 | RELAY |

<SPARK GAP>

| | | |
|---|---|---|
| SG701 | 1-519-422-11 | GAP, SPARK |
| SG702 | 1-519-422-11 | GAP, SPARK |
| SG901 | 1-517-499-21 | GAP, SPARK |

<TRANSFORMER>

| | | |
|---|---|---|
| T501 | 1-429-303-21 | TRANSFORMER, FERRITE (HDT) |
| T502 | 1-416-401-11 | INDUCTOR 0UH |
| T503 | 1-431-413-11 | TRANSFORMER, FERRITE (HST) |
| T504 | 1-416-257-11 | INDUCTOR 0UH |
| T701 | 1-431-414-11 | TRANSFORMER, FERRITE (DFT) |
| T901 | 1-416-402-11 | INDUCTOR 0UH |
| T902 ⚠ | X-4035-170-1 | TRANSFORMER ASSY, FLYBACK (NX-4142//J1D4) |

<THERMISTOR>

| | | |
|---|---|---|
| TH501 | 1-807-796-11 | THERMISTOR |
| TH502 | 1-807-796-11 | THERMISTOR |

<CRYSTAL>

| | | |
|---|---|---|
| X001 | 1-567-781-61 | VIBRATOR, CRYSTAL |

**********

| | | |
|---|---|---|
| * | 8-933-283-00 | H BOARD, COMPLETE |

**********

<CAPACITOR>

| | | | | | |
|---|---|---|---|---|---|
| C805 | 1-124-589-11 | ELECT | 47MF | 20% | 16V |
| C811 | 1-124-589-11 | ELECT | 47MF | 20% | 16V |

<CONNECTOR>

| | | |
|---|---|---|
| CN801* | 1-564-526-11 | PLUG, CONNECTOR 11P |

<DIODE>

| | | |
|---|---|---|
| D820 | 8-719-064-11 | DIODE SPR-325MVW |

<TRANSISTOR>

| | | |
|---|---|---|
| Q801 | 8-729-119-78 | TRANSISTOR 2SC2785-HFE |
| Q802 | 8-729-119-78 | TRANSISTOR 2SC2785-HFE |

<RESISTOR>

| | | | | | |
|---|---|---|---|---|---|
| R801 | 1-215-433-00 | METAL | 3.3K | 1% | 1/4W |
| R802 | 1-215-409-00 | METAL | 330 | 1% | 1/4W |
| R803 | 1-215-409-00 | METAL | 330 | 1% | 1/4W |
| R804 | 1-215-413-00 | METAL | 470 | 1% | 1/4W |
| R805 | 1-215-413-00 | METAL | 470 | 1% | 1/4W |
| R806 | 1-215-417-00 | METAL | 680 | 1% | 1/4W |
| R807 | 1-215-421-00 | METAL | 1K | 1% | 1/4W |

H J L

Les composants identifiés per un tramé et une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une piéce portant le numéro spécifié.

The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

| REF.NO. | PART NO. | DESCRIPTION | | | REMARK |
|---|---|---|---|---|---|
| R808 | 1-215-421-00 | METAL | 1K | 1% | 1/4W |
| R809 | 1-215-429-00 | METAL | 2.2K | 1% | 1/4W |
| R810 | 1-215-433-00 | METAL | 3.3K | 1% | 1/4W |
| R814 | 1-249-429-11 | CARBON | 10K | 5% | 1/4W |
| R815 | 1-249-429-11 | CARBON | 10K | 5% | 1/4W |
| R818 | 1-215-445-00 | METAL | 10K | 1% | 1/4W |
| R819 | 1-249-441-11 | CARBON | 100K | 5% | 1/4W |
| R826 | 1-249-408-11 | CARBON | 180 | 5% | 1/4W |
| R827 | 1-249-407-11 | CARBON | 150 | 5% | 1/4W |
| | | <SWITCH> | | | |
| S802 | 1-692-431-21 | SWITCH, TACTILE (CONT+) | | | |
| S803 | 1-692-431-21 | SWITCH, TACTILE (CONT-) | | | |
| S804 | 1-692-431-21 | SWITCH, TACTILE (MENU) | | | |
| S805 | 1-692-431-21 | SWITCH, TACTILE (BRT+) | | | |
| S806 | 1-692-431-21 | SWITCH, TACTILE (BRT-) | | | |
| S818 | 1-692-431-21 | SWITCH, TACTILE (ASC) | | | |
| S820 | 1-692-431-21 | SWITCH, TACTILE (RESET) | | | |
| | | <THERMISTOR> | | | |
| TH801 | 1-807-796-11 | THERMISTOR | | | |
| ********** | | | | | |
| * | 8-933-279-00 | J BOARD, COMPLETE | | | |
| | | ********** | | | |
| | | <CONNECTOR> | | | |
| CN891* | 1-691-961-11 | PIN, CONNECTOR (PC BOARD) 2P | | | |
| | | <SWITCH> | | | |
| S891 ⚠ | 1-571-433-31 | SWITCH, PUSH (AC POWER) | | | |
| ********** | | | | | |
| * | 8-933-263-00 | L BOARD, COMPLETE | | | |
| | | ********** | | | |
| | | <CAPACITOR> | | | |
| C5002 | 1-126-964-11 | ELECT | 10MF | 20% | 50V |
| C5003 | 1-126-933-11 | ELECT | 100MF | 20% | 16V |
| C5004 | 1-104-664-11 | ELECT | 47MF | 20% | 25V |
| C5005 | 1-104-664-11 | ELECT | 47MF | 20% | 25V |
| C5008 | 1-104-664-11 | ELECT | 47MF | 20% | 25V |
| C5009 | 1-164-004-11 | CERAMIC CHIP | 0.1MF | 10% | 25V |
| C5101 | 1-164-004-11 | CERAMIC CHIP | 0.1MF | 10% | 25V |
| C5103 | 1-164-004-11 | CERAMIC CHIP | 0.1MF | 10% | 25V |
| C5104 | 1-164-004-11 | CERAMIC CHIP | 0.1MF | 10% | 25V |
| C5105 | 1-104-664-11 | ELECT | 47MF | 20% | 25V |
| C5106 | 1-164-004-11 | CERAMIC CHIP | 0.1MF | 10% | 25V |
| C5107 | 1-137-399-11 | FILM | 0.1MF | 5% | 50V |
| C5108 | 1-164-004-11 | CERAMIC CHIP | 0.1MF | 10% | 25V |
| C5109 | 1-164-004-11 | CERAMIC CHIP | 0.1MF | 10% | 25V |
| C5110 | 1-104-664-11 | ELECT | 47MF | 20% | 25V |
| C5111 | 1-137-399-11 | FILM | 0.1MF | 5% | 50V |
| C5201 | 1-104-664-11 | ELECT | 47MF | 20% | 25V |
| C5202 | 1-104-664-11 | ELECT | 47MF | 20% | 25V |
| C5203 | 1-164-004-11 | CERAMIC CHIP | 0.1MF | 10% | 25V |
| C5204 | 1-137-399-11 | FILM | 0.1MF | 5% | 50V |
| C5205 | 1-164-489-11 | CERAMIC CHIP | 0.22MF | 10% | 16V |
| C5206 | 1-164-004-11 | CERAMIC CHIP | 0.1MF | 10% | 25V |
| C5301 | 1-164-004-11 | CERAMIC CHIP | 0.1MF | 10% | 25V |
| C5303 | 1-164-004-11 | CERAMIC CHIP | 0.1MF | 10% | 25V |
| C5304 | 1-164-004-11 | CERAMIC CHIP | 0.1MF | 10% | 25V |
| C5305 | 1-104-664-11 | ELECT | 47MF | 20% | 25V |
| C5306 | 1-164-004-11 | CERAMIC CHIP | 0.1MF | 10% | 25V |
| C5307 | 1-137-399-11 | FILM | 0.1MF | 5% | 50V |
| C5308 | 1-164-004-11 | CERAMIC CHIP | 0.1MF | 10% | 25V |
| C5309 | 1-164-004-11 | CERAMIC CHIP | 0.1MF | 10% | 25V |
| C5310 | 1-104-664-11 | ELECT | 47MF | 20% | 25V |
| C5311 | 1-137-399-11 | FILM | 0.1MF | 5% | 50V |
| C5401 | 1-164-004-11 | CERAMIC CHIP | 0.1MF | 10% | 25V |
| C5403 | 1-164-232-11 | CERAMIC CHIP | 0.01MF | 10% | 50V |
| C5404 | 1-164-004-11 | CERAMIC CHIP | 0.1MF | 10% | 25V |
| C5405 | 1-104-664-11 | ELECT | 47MF | 20% | 25V |
| C5406 | 1-164-004-11 | CERAMIC CHIP | 0.1MF | 10% | 25V |
| C5407 | 1-137-399-11 | FILM | 0.1MF | 5% | 50V |
| C5408 | 1-163-003-11 | CERAMIC CHIP | 330PF | 10% | 50V |
| C5409 | 1-164-004-11 | CERAMIC CHIP | 0.1MF | 10% | 25V |
| C5410 | 1-104-664-11 | ELECT | 47MF | 20% | 25V |
| C5412 | 1-164-004-11 | CERAMIC CHIP | 0.1MF | 10% | 25V |
| C5501 | 1-126-923-11 | ELECT | 220MF | 20% | 10V |
| | | <CONNECTOR> | | | |
| CN5001* | 1-564-512-11 | PLUG, CONNECTOR 9P | | | |
| CN5002* | 1-564-509-11 | PLUG, CONNECTOR 6P | | | |
| CN5003 | 1-564-513-11 | PLUG, CONNECTOR 10P | | | |
| CN5004* | 1-564-507-11 | PLUG, CONNECTOR 4P | | | |
| | | <DIODE> | | | |
| D5002 | 8-719-801-78 | DIODE 1SS184 | | | |
| D5101 | 8-719-800-76 | DIODE 1SS226 | | | |
| D5103 | 8-719-800-76 | DIODE 1SS226 | | | |
| D5201 | 8-719-800-76 | DIODE 1SS226 | | | |
| D5301 | 8-719-800-76 | DIODE 1SS226 | | | |
| D5303 | 8-719-800-76 | DIODE 1SS226 | | | |
| D5401 | 8-719-800-76 | DIODE 1SS226 | | | |
| D5403 | 8-719-800-76 | DIODE 1SS226 | | | |
| D5501 | 8-719-976-96 | ZENER DIODE DTZ4.7C | | | |

L

| REF.NO. | PART NO. | DESCRIPTION | | | REMARK |
|---|---|---|---|---|---|
| | | <SENSOR> | | | |
| GS5001 | *1-475-351-11 | SENSOR UNIT, MAGNETIC | | | |
| | | <IC> | | | |
| IC5101 | 8-759-822-38 | IC LA6510 | | | |
| IC5201 | 8-759-803-42 | IC LA6500-FA | | | |
| IC5301 | 8-759-822-38 | IC LA6510 | | | |
| IC5401 | 8-759-822-38 | IC LA6510 | | | |
| | | <RESISTOR> | | | |
| R5001 | 1-249-383-11 | CARBON | 1.5 | 5% | 1/4W F |
| R5003 | 1-216-295-91 | SHORT | 0 | | |
| R5005 | 1-216-689-11 | RES,CHIP | 39K | 5% | 1/10W |
| R5006 | 1-216-073-00 | RES,CHIP | 10K | 5% | 1/10W |
| R5007 | 1-216-049-91 | RES,CHIP | 1K | 5% | 1/10W |
| R5008 | 1-216-295-91 | SHORT | 0 | | |
| R5009 | 1-216-295-91 | SHORT | 0 | | |
| R5010 | 1-216-295-91 | SHORT | 0 | | |
| R5011 | 1-216-073-00 | RES,CHIP | 10K | 5% | 1/10W |
| R5012 | 1-216-295-91 | SHORT | 0 | | |
| R5013 | 1-216-295-91 | SHORT | 0 | | |
| R5015 | 1-216-049-91 | RES,CHIP | 1K | 5% | 1/10W |
| R5101 | 1-249-383-11 | CARBON | 1.5 | 5% | 1/4W F |
| R5102 | 1-249-383-11 | CARBON | 1.5 | 5% | 1/4W F |
| R5108 | 1-216-308-00 | RES,CHIP | 4.7 | 5% | 1/10W |
| R5109 | 1-216-308-00 | RES,CHIP | 4.7 | 5% | 1/10W |
| R5110 | 1-216-073-00 | RES,CHIP | 10K | 5% | 1/10W |
| R5111 | 1-216-308-00 | RES,CHIP | 4.7 | 5% | 1/10W |
| R5112 | 1-249-383-11 | CARBON | 1.5 | 5% | 1/4W F |
| R5113 | 1-216-073-00 | RES,CHIP | 10K | 5% | 1/10W |
| R5114 | 1-249-441-11 | CARBON | 100K | 5% | 1/4W F |
| R5115 | 1-215-882-00 | METAL OXIDE | 22 | 5% | 2W F |
| R5116 | 1-216-073-00 | RES,CHIP | 10K | 5% | 1/10W |
| R5117 | 1-216-308-00 | RES,CHIP | 4.7 | 5% | 1/10W |
| R5119 | 1-216-073-00 | RES,CHIP | 10K | 5% | 1/10W |
| R5120 | 1-249-383-11 | CARBON | 1.5 | 5% | 1/4W F |
| R5121 | 1-249-441-11 | CARBON | 100K | 5% | 1/4W F |
| R5122 | 1-215-882-00 | METAL OXIDE | 22 | 5% | 2W F |
| R5201 | 1-249-383-11 | CARBON | 1.5 | 5% | 1/4W F |
| R5202 | 1-249-383-11 | CARBON | 1.5 | 5% | 1/4W F |
| R5203 | 1-249-383-11 | CARBON | 1.5 | 5% | 1/4W F |
| R5204 | 1-249-441-11 | CARBON | 100K | 5% | 1/4W F |
| R5205 | 1-216-073-00 | RES,CHIP | 10K | 5% | 1/10W |
| R5206 | 1-215-859-00 | METAL OXIDE | 22 | 5% | 1W F |
| R5207 | 1-216-073-00 | RES,CHIP | 10K | 5% | 1/10W |
| R5208 | 1-216-670-11 | METAL CHIP | 6.2K | 0.50% | 1/10W |
| R5301 | 1-249-383-11 | CARBON | 1.5 | 5% | 1/4W F |
| R5302 | 1-249-383-11 | CARBON | 1.5 | 5% | 1/4W F |
| R5308 | 1-216-308-00 | RES,CHIP | 4.7 | 5% | 1/10W |
| R5309 | 1-216-308-00 | RES,CHIP | 4.7 | 5% | 1/10W |
| R5310 | 1-216-073-00 | RES,CHIP | 10K | 5% | 1/10W |
| R5311 | 1-216-308-00 | RES,CHIP | 4.7 | 5% | 1/10W |
| R5312 | 1-249-383-11 | CARBON | 1.5 | 5% | 1/4W F |
| R5313 | 1-216-073-00 | RES,CHIP | 10K | 5% | 1/10W |
| R5314 | 1-249-441-11 | CARBON | 100K | 5% | 1/4W F |
| R5315 | 1-215-882-00 | METAL OXIDE | 22 | 5% | 2W F |
| R5316 | 1-216-073-00 | RES,CHIP | 10K | 5% | 1/10W |
| R5317 | 1-216-308-00 | RES,CHIP | 4.7 | 5% | 1/10W |
| R5319 | 1-216-073-00 | RES,CHIP | 10K | 5% | 1/10W |
| R5320 | 1-249-383-11 | CARBON | 1.5 | 5% | 1/4W F |
| R5321 | 1-249-441-11 | CARBON | 100K | 5% | 1/4W F |
| R5322 | 1-215-882-00 | METAL OXIDE | 22 | 5% | 2W F |
| R5401 | 1-249-383-11 | CARBON | 1.5 | 5% | 1/4W F |
| R5402 | 1-249-383-11 | CARBON | 1.5 | 5% | 1/4W F |
| R5406 | 1-216-689-11 | RES,CHIP | 39K | 5% | 1/10W |
| R5407 | 1-216-079-00 | RES,CHIP | 18K | 5% | 1/10W |
| R5408 | 1-216-308-00 | RES,CHIP | 4.7 | 5% | 1/10W |
| R5409 | 1-216-308-00 | RES,CHIP | 4.7 | 5% | 1/10W |
| R5410 | 1-216-089-91 | RES,CHIP | 47K | 5% | 1/10W |
| R5411 | 1-216-308-00 | RES,CHIP | 4.7 | 5% | 1/10W |
| R5412 | 1-249-383-11 | CARBON | 1.5 | 5% | 1/4W F |
| R5413 | 1-216-097-91 | RES,CHIP | 100K | 5% | 1/10W |
| R5414 | 1-249-441-11 | CARBON | 100K | 5% | 1/4W F |
| R5415 | 1-215-886-11 | METAL OXIDE | 100 | 5% | 2W F |
| R5416 | 1-216-077-00 | RES,CHIP | 15K | 5% | 1/10W |
| R5417 | 1-216-308-00 | RES,CHIP | 4.7 | 5% | 1/10W |
| R5419 | 1-216-089-91 | RES,CHIP | 47K | 5% | 1/10W |
| R5420 | 1-249-383-11 | CARBON | 1.5 | 5% | 1/4W F |
| R5421 | 1-249-441-11 | CARBON | 100K | 5% | 1/4W F |
| R5422 | 1-215-885-00 | METAL OXIDE | 68 | 5% | 2W F |
| R5423 | 1-216-105-91 | RES,CHIP | 220K | 5% | 1/10W |
| R5501 | 1-216-057-00 | RES,CHIP | 2.2K | 5% | 1/10W |
| R5502 | 1-216-681-11 | METAL CHIP | 18K | 0.50% | 1/10W |
| R5503 | 1-216-681-11 | METAL CHIP | 18K | 0.50% | 1/10W |
| R5504 | 1-216-093-00 | RES,CHIP | 68K | 5% | 1/10W |
| R5505 | 1-216-067-00 | RES,CHIP | 5.6K | 5% | 1/10W |
| R5506 | 1-216-670-11 | METAL CHIP | 6.2K | 0.50% | 1/10W |

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**English**
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# 6558-03N/03S/43N/43S

# SERVICE MANUAL

## COLOR MONITOR

IBM®

*6558-03N/43N*

*US Model*
*Canadian Model*
*AEP Model*
*Japan Model*

*6558-03S/43S*

*S. Hemisphere Model*

# CORRECTION-1

File this correction with the service manual.

**SUBJECT : CORRECTION OF DIFFERENT COLOR PARTS MISSING FROM PARTS LIST.**

☛: Indicates corrected portion

**SECTION 6 EXPLODED VIEWS (See page 6-2 and 6-3)**

| Incorrect | | | | Correct | | | |
|---|---|---|---|---|---|---|---|
| **REF.NO.** | **PART NO.** | **DESCRIPTION** | **REMARK** | **REF.NO.** | **PART NO.** | **DESCRIPTION** | **REMARK** |
| 63 | * 4-061-603-31 | COVER, BOTTOM | | 63 | * 4-061-603-31 | COVER, BOTTOM (03N/03S) | |
| | | | | 63 | * 4-061-603-51 | COVER, BOTTOM (43N/43S) | ☛ |
| 66 | X-4035-384-1 | STAND ASSY | | 66 | X-4035-384-1 | STAND ASSY (03N/03S) | |
| | | | | 66 | X-4035-590-2 | STAND ASSY (43N/43S) | ☛ |
| 107 | 1-783-247-11 | CABLE ASSY | | 107 | 1-783-247-11 | CABLE ASSY (03N/03S) | |
| | | | | 107 | 1-783-250-11 | CABLE ASSY (43N/43S) | ☛ |

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